

Supplementary Results

The *SLC35A2* gene has been previously associated with mild MCD or FCD type 1^{1,2} but was more recently confirmed as a genetic marker for the MOGHE phenotype.³⁻⁵ We originally identified four FCD 1a or mMCD samples with *SLC35A2* variants. However, upon in-depth review of histopathological imaging, we determined that the pathological phenotypes of these samples more closely matched MOGHE and reclassified them accordingly. Thus, we detected alterations in *SLC35A2* exclusively in MOGHE samples. Accordingly, we observed a strong association between *SLC35A2* and MOGHE, with 47.1% (16/35) of MOGHE samples carrying a variant in *SLC35A2*.

As expected, alterations in *FGFR1* were exclusively identified in DNET (29%, 7/24), with multiple alterations identified in the majority of cases (71%, 5/7 *FGFR1*-DNET).^{6,7} Variants in *BRAF* were strongly associated with ganglioglioma⁸, with 77.6% (52/67) of detected *BRAF* alterations occurring in ganglioglioma and 57.5% (46/80) of ganglioma carrying at least one alteration in *BRAF*. Of these, the majority (40/46, 87%) carried the *BRAFV600E* variant. Furthermore, *BRAFV600E* was detected in all three pleomorphic xanthoastrocytoma⁷ samples in our cohort. Of note, we observed six ganglioglioma with both a somatic *BRAF* SNV and a somatic duplication covering the *BRAF* gene (7.5%), one sample with two separate somatic duplications covering *BRAF*, and one sample with two different SNV in *BRAF* (V600E and A764V).

Our gene enrichment analysis revealed a strong association between LEAT and *PTPN11* (Figure 3). Our somatic variant gene discovery also revealed novel associations between epileptogenic brain lesions and two different RAS genes, *NRAS* and *KRAS*. Alterations in *NRAS* showed a strong association with polymicrogyria (PMG) and were exclusively detected in 17% of PMG (2/12). We detected a singular somatic *KRAS* SNV in a cancer driving site in a case of meningioangiomas (50%, 1/2), a lesion typically associated with the germline neurofibromatosis 2, but not somatic variants in *NF2*.^{9,10} To the best of our knowledge, we are the first to report an association between RAS genes and epileptogenic lesions. Lastly, we identified an association between somatic alterations in *NFI* and epileptogenic brain lesions. We detected nine *NFI* alterations across seven LEAT, which included two ganglioglioma, two DNET, and three gliomas (Fig 3A). Among these, we identified DNET sample carrying two distinct somatic *NFI* SNV (a splicing variant and a stopgain) and a pilocytic astrocytoma carrying a somatic *NFI* PTV and a somatic CNN-LOH covering *NFI*. We also identified an additional seven *NFI* alterations across five MCD, which

included four FCD II and a single PMG (Fig 3A). From these, we only detected more than one variant in the PMG, which carried three distinct *NFI* alterations (T30K, G26X, and a somatic CNN-LOH covering *NFI*). Our results expand the spectrum of epileptogenic brain lesions associated to variants in the canonical RAS-RAF-MAPK pathway and serve as a foundation for untangling the role of this pathway in lesional epilepsies.

Supplementary Table 1: Panel of Normals used in the somatic variant analysis

Sample	Sex	Age at surgery	Pathology
PON_CCF_1	Female	65	No visible lesion on histopathology
PON_CCF_2	Female	21	No visible lesion on histopathology
PON_CCF_3	Male	25	No visible lesion on histopathology
PON_CCF_4	Female	32	No visible lesion on histopathology
PON_CCF_5	Male	47	No visible lesion on histopathology
PON_CCF_6	Male	54	No visible lesion on histopathology
PON_CCF_7	Male	16	No visible lesion on histopathology
PON_CCF_8	Female	61	No visible lesion on histopathology
PON_CCF_9	Female	47	No visible lesion on histopathology
PON_EEBB_1	Male	33	Glial Scar
PON_EEBB_2	Male	38	Glial Scar
PON_EEBB_3	Male	25	No visible lesion on histopathology
PON_EEBB_4	Male	30	Encephalitis / Glial Scar
PON_EEBB_5	Male	29	No visible lesion on histopathology
PON_EEBB_6	Female	27	Rasmussen Encephalitis
PON_EEBB_7	Female	42	No visible lesion on histopathology
PON_EEBB_8	Male	34	Limbic Encephalitis
PON_EEBB_9	Female	54	Glial Scar
PON_EEBB_10	Male	44	No visible lesion on histopathology
PON_EEBB_11	Male	27	No visible lesion on histopathology
PON_EEBB_12	Female	44	No visible lesion on histopathology
PON_EEBB_13	Female	39	No visible lesion on histopathology
PON_EEBB_14	Female	36	No visible lesion on histopathology
PON_EEBB_15	Male	37	No visible lesion on histopathology

Supplementary Table 2: Top hits from gene enrichment analysis

Gene	Synonymous variants	Missense variants	Nonsense variants	Splice variants	Insertions/deletions	P_{global} (unadjusted)	Q_{global}
Hippocampal Sclerosis (n=97)							
<i>NUDT14</i>	0	0	0	0	1	0.001052	1
<i>TEX45</i>	0	0	0	0	1	0.001724	1
<i>FKBP10</i>	0	0	0	0	1	0.001858	1
<i>ARNT</i>	0	0	0	0	1	0.00216	1
<i>UNC5C</i>	0	0	0	0	1	0.002331	1
Malformations of cortical development (n=223)							
<i>SLC35A2</i>	0	7	2	0	3	0	0
<i>MTOR</i>	0	11	0	0	1	2.56E-10	2.57E-06
<i>AKT3</i>	0	3	0	0	0	3.47E-04	1
<i>OR9G1</i>	0	4	0	0	0	7.59E-04	1
<i>OR9G9</i>	0	4	0	0	0	7.59E-04	1
<i>NRAS</i>	0	2	0	0	0	0.002669	1
<i>CD3G</i>	0	0	0	0	1	0.003661	1
Low-grade epilepsy-associated tumors (n=154)							
<i>BRAF</i>	0	39	0	0	3	0	0
<i>PTPN11</i>	0	6	0	0	0	4.19E-08	4.21E-04
<i>FGFR1</i>	0	4	0	0	0	2.62E-05	0.175515
<i>OR4C3</i>	0	4	0	0	0	3.16E-04	1
<i>AURKC</i>	0	1	0	0	1	3.59E-04	1
<i>NFI</i>	0	0	0	0	2	7.76E-04	1
<i>RARA</i>	0	1	0	0	1	0.001494	1
<i>HSPA2</i>	0	1	0	0	1	0.002737	1
<i>GNRH2</i>	0	0	0	0	1	0.004502	1

Supplementary Table 3: Identified cancer driver variants

Gene	Known driver site	Samples with variants	Associated pathology	Specific sample pathologies
<i>BRAF</i>	p.V600	45	LEAT	Ganglioglioma, PXA, MVNT
<i>MTOR</i>	p.S2215	3	MCD	FCD type IIb, HME
	p.T1977	1	MCD	FCD type IIb
	p.L1460	1	MCD	FCD type IIb
<i>NRAS</i>	p.Q61	2	MCD	PMG
<i>PTPN11</i>	p.A72	2	LEAT	DNET
	p.E76	1	LEAT	Ganglioglioma
<i>KRAS</i>	p.G12	1	LEAT	Meningioangiomas
<i>PIK3CA</i>	p.V344	1	LEAT	DNET
	p.E545	1	MCD	HME

Legend: PXA = Pleomorphic xanthoastrocytoma, MVNT = Multinodular vacuolated neuronal tumor, FCD = Focal cortical dysplasia, HME = Hemimegalencephaly, PMG = Polymicrogyria, DNET = Dysembryoplastic Neuroepithelial tumor

Supplementary Table 4: Reported SNV in 19 lesional epilepsy genes

Sample	Sex	Age at onset	Age at surgery	Lesion group	Pathology	Additional findings	Gene	Variant position(hg19)	Transcript ID	cDNA change	Amino acid change	Variant allelic fraction	Variant class	REVEL score	CADD score	ClinVar class.	ACMG pathogenicity criteria*	ACMG pathogenicity prediction
HS_EEBB_20	F	3	46	HS	HS I	FCD 3a	<i>MTOR</i>	chr1:11188137	NM_004958	c.C5957G	p.A1986G	0.47	Missense	0.552	25.9	Not in ClinVar	PM2 PP2 PP3	VUS†
HS_EEBB_41	F	1	35	HS	HS I		<i>PTPN11</i>	chr12:112926885	NM_002834	c.C1505T	p.S502L	0.02	Missense		34	P/LP	PS1 PM2 PP2 PP3 PP5	LP†
HS_EEBB_53	M	1	47	HS	HS I		<i>TSC1</i>	chr9:135772010	NM_000368	c.G3107A	p.G1036E	0.5	Missense	0.237	24.7	CloP	PM2	VUS†
HS_EEBB_71	M	45	70	HS	HS I		<i>MTOR</i>	chr1:11301631	NM_004958	c.C1520T	p.P507L	0.47	Missense	0.446	24.3	Not in ClinVar	PM2 PP2	VUS†
HS_EEBB_17	M	20	26	HS	HS 2	FCD 3a	<i>PTEN</i>	chr10:89720649	NM_001304717	c.1321-2A>T	Splicing	0.03	PTV		35	Not in ClinVar	PVS1 PM2 PM4 PP3	P†
LEAT_EEBB_1	F	14	15	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.17	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_10	F	6	16	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.15	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_10	F	6	16	LEAT	GG		<i>PTPN11</i>	chr12:112888210	NM_002834	c.G226A	p.E76K	0.02	Missense		33	P	PS1 PS4 PM1 PM2 PP2 PP3 PP5	P
LEAT_EEBB_100	M	12	18	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.17	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_100	M	12	18	LEAT	GG		<i>BRAF</i>	chr7:140426307	NM_001354609	c.C2291T	p.A764V	0.03	Missense		22.9	Not in ClinVar	PS4 PM2 PP2 PP4	LP
LEAT_EEBB_103	F	18	23	LEAT	GG	HS Type I	<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.36	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_106	F	0.7	31	LEAT	GG	HS Type I	<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.04	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_107	M	0.3	9	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.04	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_108	F	7	7	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.05	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_12	M	1.1	4	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.1	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_14	M		17	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.04	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_15	M	15	17	LEAT	GG	HS	<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.13	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_15	M	15	17	LEAT	GG	HS	<i>PTPN11</i>	chr12:112888165	NM_002834	c.G181A	p.D61N	0.03	Missense		33	P	PS1 PS4 PM2 PP2 PP3 PP5	P
LEAT_EEBB_15	M	15	17	LEAT	GG	HS	<i>PTPN11</i>	chr12:112891083	NM_002834	c.G417C	p.E139D	0.03	Missense		27.4	P	PS1 PS4 PM2 PP2 PP3 PP5	P

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LEAT_EEBB_22	M		3	LEAT	GG	HS Type I	<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.09	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_22	M		3	LEAT	GG	HS Type I	<i>NFI</i>	chr17:29579966	NM_001042492	c.A4121G	p.H1374R	0.44	Missense	0.451	23.9	Not in ClinVar	PS4 PM2 PP2	LP
LEAT_EEBB_22	M		3	LEAT	GG	HS Type I	<i>TSC2</i>	chr16:2130303	NM_000548	c.G3535A	p.E1179K	0.44	Missense	0.576	23.6	CloP	PM2	VUS
LEAT_EEBB_27	M	16	19	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.15	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_32	F	20	22	LEAT	GG		<i>BRAF</i>	chr7:140453137	NM_004333	c.1798delinsACAG	p.T599_V600insT	0.26	Missense		22.2	Not in ClinVar	PS1 PS4 PM2 PM5 PP2 PP4	P
LEAT_EEBB_34	M		4	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.19	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_37	M	I	44	LEAT	GG	HS Type I	<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.04	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_39	F	4	28	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.12	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_40	F	14	25	LEAT	GG	HS Type I	<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.2	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_42	F	20	33	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.08	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_43	F	0.8	2.9	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.25	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_44	M	1.1	4	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.04	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_47	F	0.9	4	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.08	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_52	M	13	20	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.09	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_53	F	10	19	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.04	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_54	M	I	6	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.18	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_57	M	0.7	5	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.13	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_61	M	I	2	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.15	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_62	M	48	49	LEAT	GG		<i>TSC1</i>	chr9:135772994	NM_000368	c.G2629T	p.V877L	0.03	Missense	0.344	23	Not in ClinVar	PM2	VUS

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LEAT_EEBB_63	M	13	15	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.12	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_65	M	1.1	5	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.23	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_67	M		5	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.12	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_73	M	4	6	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.14	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_74	M	8	12	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.14	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_76	F	6	15	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.16	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_78	M	2	8	LEAT	GG	HS Type 1	<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.04	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_80	M	5.7	6	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.19	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_84	M	0.3	2	LEAT	GG	HS Type 2	<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.21	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_84	M	0.3	2	LEAT	GG	HS Type 2	<i>PIK3CA</i>	chr3:178942554	NM_006218	c.C2361A	p.D787E	0.47	Missense	0.574	25.9	Not in ClinVar	PM2 PP3	VUS
LEAT_EEBB_85	M		32	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.13	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_90	F		47	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.06	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_90	F		47	LEAT	GG		<i>PTEN</i>	chr10:89720649	NM_001304717	c.1321-2A>T	Splicing	0.06	PTV		35	Not in ClinVar	PVS1 PM2 PM4 PP3	P
LEAT_EEBB_91	F	6	11	LEAT	GG		<i>BRAF</i>	chr7:140477841	NM_004333	c.1465_1467 delinsA	p.A489Tfs*12	0.03	PTV		34	Not in ClinVar	PS4 PM2 PM4 PP3 PP4	P
LEAT_EEBB_94	M	6	9	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.41	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_96	M	8.4	9.5	LEAT	GG	HS Type 1	<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.11	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_98	M	15	18	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.12	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_EEBB_99	F	3	8.9	LEAT	GG		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.12	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
LEAT_CCF_6	F	30	33.6	LEAT	DNET		<i>PTPN11</i>	chr12:112926900	NM_002834	c.C1520A	p.T507K	0.02	Missense		34	P	PS1 PS4 PM2 PP2 PP3 PP5	P

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LEAT_EEBB_105	F	38	39	LEAT	DNET		FGFR1	chr8:38272308	NM_001174067	c.A2059G	p.K687E	0.18	Missense	0.9	27.8	P/LP	PS1 PM2 PP3 PP4 PP5	LP
LEAT_EEBB_105	F	38	39	LEAT	DNET		FGFR1	chr8:38274850	NM_001174067	c.A1730G	p.N577S	0.11	Missense	0.735	26.5	Not in ClinVar	PM2 PP3 PP4	VUS
LEAT_EEBB_105	F	38	39	LEAT	DNET		NFI	chr17:29554604	NM_001042492	c.2389delG	p.A797Pfs*24	0.04	PTV		34	LP	PVS1 PS4 PM2 PM4 PP3	P
LEAT_EEBB_33	M	14	17	LEAT	DNET		PIK3CA	chr3:178952085	NM_006218	c.A3140G	p.H1047R	0.03	Missense		20.1	P	PS1 PM2 PP5	LP
LEAT_EEBB_49	F	30	33	LEAT	DNET		FGFR1	chr8:38274849	NM_001174067	c.C1731A	p.N577K	0.18	Missense	0.646	29.7	P	PS1 PM2 PP3 PP4 PP5	LP
LEAT_EEBB_49	F	30	33	LEAT	DNET		NFI	chr17:29665035	NM_001042492	c.6705-8_6705-1delinsA	Splicing	0.05	PTV		24.7	Not in ClinVar	PVS1 PS4 PM2 PM4	P
LEAT_EEBB_49	F	30	33	LEAT	DNET		NFI	chr17:29552151	NM_001042492	c.C1884G	p.Y628X	0.05	PTV		34	Not in ClinVar	PVS1 PS4 PM2 PM4 PM5 PP3	P
LEAT_EEBB_49	F	30	33	LEAT	DNET		PTPN11	chr12:112888199	NM_002834	c.C215T	p.A72V	0.03	Missense		32	CloP	PS4 PM1 PM2 PM5 PP2 PP3	P
LEAT_EEBB_6	M	13	14	LEAT	DNET		FGFR1	chr8:38272308	NM_001174067	c.A2059G	p.K687E	0.42	Missense	0.9	27.8	P/LP	PS1 PM2 PP3 PP4 PP5	LP
LEAT_EEBB_6	M	13	14	LEAT	DNET		FGFR1	chr8:38272308	NM_001174067	c.A2059C	p.K687Q	0.42	Missense	0.733	27.6	Not in ClinVar	PM2 PM5 PP3 PP4	LP
LEAT_EEBB_6	M	13	14	LEAT	DNET		FGFR1	chr8:38272319	NM_001174067	c.A2048G	p.D683G	0.41	Missense	0.866	31	Not in ClinVar	PM2 PP3 PP4	VUS
LEAT_EEBB_60	M	19	22	LEAT	DNET		FGFR1	chr8:38272308	NM_001174067	c.A2059G	p.K687E	0.04	Missense	0.9	27.8	P/LP	PS1 PM2 PP3 PP4 PP5	LP
LEAT_EEBB_60	M	19	22	LEAT	DNET		FGFR1	chr8:38272322	NM_001174067	c.T2045C	p.I682T	0.03	Missense	0.721	29.4	Not in ClinVar	PM2 PP3 PP4	VUS
LEAT_EEBB_81	M	45	59	LEAT	DNET		FGFR1	chr8:38274849	NM_001174067	c.C1731A	p.N577K	0.23	Missense	0.646	29.7	P	PS1 PM2 PP3 PP4 PP5	LP
LEAT_EEBB_81	M	45	59	LEAT	DNET		PTPN11	chr12:112888199	NM_002834	c.C215G	p.A72G	0.02	Missense		28.2	P	PS1 PS4 PM1 PM2 PP2 PP3 PP5	P
LEAT_EEBB_83	M	6	12	LEAT	DNET		FGFR1	chr8:38272302	NM_001174067	c.A2065C	p.T689P	0.31	Missense	0.673	22.8	Not in ClinVar	PM2 PP4	VUS
LEAT_EEBB_83	M	6	12	LEAT	DNET		FGFR1	chr8:38272307	NM_001174067	c.A2060T	p.K687M	0.3	Missense	0.876	29	Not in ClinVar	PM2 PM5 PP3 PP4	LP
LEAT_EEBB_83	M	6	12	LEAT	DNET		FGFR1	chr8:38272321	NM_001174067	c.C2046G	p.I682M	0.3	Missense	0.493	23	Not in ClinVar	PM2 PP4	VUS
LEAT_EEBB_83	M	6	12	LEAT	DNET		PIK3CA	chr3:178921549	NM_006218	c.T1031G	p.V344G	0.03	Missense		27.3	LP	PM1 PM2 PM5 PP3	LP
LEAT_EEBB_2	F		35	LEAT	AG		DEPDC5	chr22:32206593	NM_001242896	c.G1411A	p.G471S	0.54	Missense	0.25	24.1	VUS	PM2	VUS†
LEAT_EEBB_31	M	12	13	LEAT	MA	FCD 3c	KRAS	chr12:25398284	NM_033360	c.G35A	p.G12D	0.05	Missense		25.3	P	PS1 PM1 PM2 PP3 PP5	P
LEAT_EEBB_113	M	2	47	LEAT	MVNT		BRAF	chr7:140453138	NM_004333	c.1797delinsT ACA	p.T599_V600insT	0.14	Missense		22.2	Not in ClinVar	PS1 PS4 PM2 PP2	P
LEAT_EEBB_95	F	6	39	LEAT	PA		NFI	chr17:29677325	NM_001042492	c.7446_7450delinsC	p.S2484ifs*4	0.13	PTV			Not in ClinVar	PVS1 PS4 PM2 PM4	P
LEAT_EEBB_38	M	11	16	LEAT	PXA		BRAF	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.12	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP5	P

Sample	Sex	Age at onset	Age at surgery	Lesion group	Pathology	Additional findings	Gene	Variant position(hg19)	Transcript ID	cDNA change	Amino acid change	Variant allelic fraction	Variant class	REVEL score	CADD score	ClinVar class.	ACMG pathogenicity criteria*	ACMG pathogenicity prediction
LEAT_EEBB_56	M	11	15	LEAT	PXA		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.41	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP5	P
LEAT_EEBB_56	M	11	15	LEAT	PXA		<i>NFI</i>	chr17:29559097	NM_001042492	c.G3204T	p.L1068F	0.28	Missense		25.6	LB	PS4 PM2 PP2 PP3	LP
LEAT_EEBB_59	M		16	LEAT	PXA		<i>BRAF</i>	chr7:140453136	NM_004333	c.T1799A	p.V600E	0.22	Missense	0.931	32	P	PS1 PS4 PM1 PM2 PP2 PP3 PP5	P
LEAT_CCF_37	M	0.8	7.3	LEAT	TSC	SEGA	<i>TSC2</i>	chr16:2106223	NM_000548	c.626_628del insC	p.A210Vfs*24	0.02	PTV		21.3	Not in ClinVar	PVS1 PM2 PM4 PP4	P
LEAT_EEBB_17	F	0.1	9	LEAT	TSC	SEGA	<i>PTPN11</i>	chr12:112888165	NM_002834	c.G181C	p.D61H	0.05	Missense		29.4	P	PS1 PS4 PM2 PP2 PP3 PP5	P
LEAT_EEBB_17	F	0.1	9	LEAT	TSC	SEGA	<i>TSC2</i>	chr16:2106719	NM_000548	c.724dupA	p.T242Nfs*96	0.46	PTV		25.9	NP	PVS1 PM2 PM4 PP3 PP4	P
MCD_CCF_19	M	10	25	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762551	NM_005660	c.632_635del	p.L211Pfs*137	0.05	PTV			Not in ClinVar	PVS1 PS4 PM2 PM4 PP3 PP4	P
MCD_CCF_43	M	0	8.2	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762557	NM_005660	c.G629A	p.C210Y	0.05	Missense	0.667	26.2	Not in ClinVar	PS4 PM2 PP3 PP4	LP
MCD_CCF_77	F	1.5	2.5	MCD	MOGHE	FCD1a	<i>DEPDC5</i>	chr22:32161000	NM_001242896	c.G233C	p.R78P	0.4	Missense	0.21	24.8	VUS	PM2	VUS†
MCD_CCF_79	F	1	2	MCD	MOGHE		<i>SLC35A2</i>	chrX:48763748	NM_005660	c.C347A	p.A116E	0.14	Missense	0.704	28.4	Not in ClinVar	PS4 PM2 PP3 PP4	LP
MCD_CCF_108	M	7	25.1	MCD	MOGHE		<i>SLC35A2</i>	chrX:48767173	NM_005660	c.192del insA CCGC	p.F65Pfs*30	0.24	PTV		29.1	Not in ClinVar	PVS1 PS4 PM2 PM4 PP3 PP4	P
MCD_EEBB_2	F	0.5	7.1	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762251	NM_005660	c.C935T	p.S312F	0.08	Missense	0.657	26	Not in ClinVar	PS4 PM2 PP3 PP4	LP
MCD_EEBB_17	F	24	59	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762671	NM_005660	c.T515C	p.L172P	0.03	Missense		26	LP	PS4 PM2 PP3 PP4	LP
MCD_EEBB_34	F	12	43.6	MCD	MOGHE		<i>SLC35A2</i>	chrX:48763729	NM_005660	c.366del insT CTC	p.Y122_T123 insL	0.09	Missense		20.5	Not in ClinVar	PS4 PM2 PP4	LP
MCD_EEBB_34	F	12	43.6	MCD	MOGHE		<i>SLC35A2</i>	chrX:48763730	NM_005660	c.364_365 insC	p.Y122Sfs*6	0.15	PTV		32	Not in ClinVar	PVS1 PS4 PM2 PM4 PP3 PP4	P
MCD_EEBB_37	M	3	27	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762518	NM_005660	c.665_668 del insT	p.K222del	0.29	Missense		20.7	Not in ClinVar	PS4 PM2 PP4	LP
MCD_EEBB_58	M	0	4	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762239	NM_005660	c.921_947 del insT	p.S308Vfs*106	0.11	PTV		33	Not in ClinVar	PVS1 PS4 PM2 PM4 PP3 PP4	P
MCD_EEBB_63	M	3	7.3	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762510	NM_005660	c.675dupA	p.G226Rfs*29	0.4	PTV		33	Not in ClinVar	PVS1 PS4 PM2 PM4 PP3 PP4	P
MCD_EEBB_69	F	15	44	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762546	NM_005660	c.G640C	p.G214R	0.08	Missense	0.725	27.9	Not in ClinVar	PS4 PM2 PP3 PP4	LP
MCD_EEBB_87	F	0	6	MCD	MOGHE		<i>SLC35A2</i>	chrX:48763773	NM_005660	c.C322T	p.Q108X	0.09	PTV		36	Not in ClinVar	PVS1 PS4 PM2 PM4 PP3 PP4	P
MCD_EEBB_97	F	0.5	17.1	MCD	MOGHE		<i>NPRL2</i>	chr3:50385595	NM_006545	c.A892C	p.I298L	0.04	Missense		23	Not in ClinVar	PM2	VUS†
MCD_EEBB_97	F	0.5	17.1	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762281	NM_005660	c.C905T	p.S302F	0.08	Missense	0.814	26.6	Not in ClinVar	PS4 PM2 PP3 PP4	LP
MCD_EEBB_100	M		6	MCD	MOGHE		<i>SLC35A2</i>	chrX:48763773	NM_005660	c.C322T	p.Q108X	0.25	PTV		36	Not in ClinVar	PVS1 PS4 PM2 PM4 PP3 PP4	P
MCD_EEBB_102	F	0.5	4.1	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762251	NM_005660	c.C935T	p.S312F	0.12	Missense	0.657	26	Not in ClinVar	PS4 PM2 PP3 PP4	LP
MCD_EEBB_106	M	2	6.5	MCD	MOGHE		<i>SLC35A2</i>	chrX:48762354	NM_005660	c.C832T	p.Q278X	0.48	PTV		38	Not in ClinVar	PVS1 PS4 PM2 PM4 PP3 PP4	P

Sample	Sex	Age at onset	Age at surgery	Lesion group	Pathology	Additional findings	Gene	Variant position(hg19)	Transcript ID	cDNA change	Amino acid change	Variant allelic fraction	Variant class	REVEL score	CADD score	ClinVar class.	ACMG pathogenicity criteria*	ACMG pathogenicity prediction
MCD_EEBB_22	F	9	26	MCD	FCD 1a		MTOR	chr1:11307914	NM_004958	c.C1078T	p.R360W	0.04	Missense	0.479	34	Not in ClinVar	PM2 PP2 PP3	VUS†
MCD_CCF_8	M	5	21.4	MCD	FCD 2a		NFI	chr17:29559092	NM_001042492	c.G3199T	p.D1067Y	0.25	Missense	0.719	24	LB	PM2 PP2	VUS†
MCD_CCF_13	M	2	20.4	MCD	FCD 2a		NFI	chr17:29654761	NM_001042492	c.C5513G	p.S1838C	0.43	Missense	0.777	27.4	VUS	PM2 PP2 PP3	VUS†
MCD_CCF_13	M	2	20.4	MCD	FCD 2a		NPRL2	chr3:50386328	NM_006545	c.C562T	p.Q188X	0.53	PTV		37	Not in ClinVar	PVS1 PM2 PM4 PP3 PP4	P
MCD_CCF_30	M	2	16.5	MCD	FCD 2a		DEPDC5	chr22:32193632	NM_001242896	c.G814T	p.V272L	0.46	Missense	0.144	25.2	CloP	PM2 PP3 PP4	VUS
MCD_CCF_46	F	6	28.4	MCD	FCD 2a		NPRL3	chr16:142605	ENST00000399953	c.1149dupC	p.A384Rfs*71	0.5	PTV		33	Not in ClinVar	PVS1 PM2 PM4 PP3 PP4	P
MCD_CCF_58	F	0	2.5	MCD	FCD 2a		NPRL3	chr16:143291	ENST00000399953	c.G957A	p.W319X	0.56	PTV		39	Not in ClinVar	PVS1 PM2 PM4 PP3 PP4	P
MCD_CCF_60	F	0.1	1.5	MCD	FCD 2a		NPRL2	chr3:50388010	NM_006545	c.73dupT	p.Y25Lfs*5	0.57	PTV		32	Not in ClinVar	PVS1 PM2 PM4 PP3 PP4	P
MCD_CCF_80	F	47	56.3	MCD	FCD 2a		DEPDC5	chr22:32233122	NM_001242896	c.C2335G	p.P779A	0.49	Missense	0.271	24.1	Not in ClinVar	PM2 PP4	VUS
MCD_CCF_83	F	0.5	9.6	MCD	FCD 2a		NPRL3	chr16:136827	ENST00000399953	c.1584delT	p.M529Cfs*23	0.48	PTV		27.4	Not in ClinVar	PVS1 PM2 PM4 PP3 PP4	P
MCD_EEBB_18	M	5.5	11	MCD	FCD 2a		BRAF	chr7:140549970	NM_004333	c.A181G	p.I61V	0.42	Missense	0.288	20.8	Not in ClinVar	PM2 PM5 PP2	VUS†
MCD_EEBB_56	M	0	0.4	MCD	FCD 2a		NPRL3	chr16:143268	ENST00000399953	c.C980T	p.P327L	0.42	Missense	0.885	33	Not in ClinVar	PM2 PP3 PP4	VUS
MCD_EEBB_75	M	2.8	12	MCD	FCD 2a		DEPDC5	chr22:32239185	NM_001242896	c.C2620T	p.R874X	0.43	PTV	0.114	44	P	PVS1 PS1 PM2 PM4 PP3 PP4 PP5	P
MCD_EEBB_86	M	18	40	MCD	FCD 2a		MTOR	chr1:11217230	NM_004958	c.G4448A	p.C1483Y	0.05	Missense		32	LP	PS4 PM2 PM5 PP2 PP3 PP4	P
MCD_EEBB_88	M	0.7	5	MCD	FCD 2a		NPRL3	chr16:143268	ENST00000399953	c.C980T	p.P327L	0.46	Missense	0.885	33	Not in ClinVar	PM2 PP3 PP4	VUS
MCD_EEBB_91	M	9	36	MCD	FCD 2a		DEPDC5	chr22:32188751	NM_001242896	c.C715T	p.R239X	0.42	PTV		38	P	PVS1 PS1 PM2 PM4 PP3 PP4 PP5	P
MCD_CCF_28	F	0.5	6.3	MCD	FCD 2b		TSC2	chr16:2103361	NM_000548	c.T244C	p.W82R	0.48	Missense	0.926	25.6	VUS	PM2 PM5 PP3 PP4	LP
MCD_CCF_38	M	4	28.7	MCD	FCD 2b		MTOR	chr1:11217299	NM_004958	c.T4379C	p.L1460P	0.03	Missense		26.1	P/LP	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
MCD_CCF_48	F	7	27	MCD	FCD 2b		DEPDC5	chr22:32161000	NM_001242896	c.G233C	p.R78P	0.37	Missense	0.21	24.8	VUS	PM2 PP4	VUS
MCD_CCF_48	F	7	27	MCD	FCD 2b		TSC2	chr16:2122364	NM_000548	c.G2220T	p.M740I	0.48	Missense	0.803	23.2	Not in ClinVar	PM2 PM5 PP3 PP4	LP
MCD_CCF_49	F	2	39.2	MCD	FCD 2b		MTOR	chr1:11188975	NM_004958	c.G5748T	p.W1916C	0.46	Missense	0.478	27.7	VUS	PS4 PM2 PP2 PP3 PP4	LP
MCD_CCF_53	M	1	16.5	MCD	FCD 2b		MTOR	chr1:11169376	NM_004958	c.T7499A	p.I2500N	0.04	Missense	0.455	25	Not in ClinVar	PS4 PM2 PP2 PP3 PP4	LP
MCD_CCF_78	M	0.4	1.3	MCD	FCD 2b		DEPDC5	chr22:32200837	NM_001242896	c.C1153T	p.R385W	0.43	Missense	0.237	34	VUS	PM2 PP3 PP4	VUS
MCD_CCF_78	M	0.4	1.3	MCD	FCD 2b		NPRL3	chr16:188253	ENST00000399953	c.C14T	p.T51	0.55	Missense	0.094	23.3	VUS	PM2 PP4	VUS
MCD_CCF_92	M	6	14.8	MCD	FCD 2b		MTOR	chr1:11187847	NM_004958	c.T6050C	p.I2017T	0.08	Missense	0.724	29.5	Not in ClinVar	PS4 PM2 PP2 PP3 PP4	LP

Sample	Sex	Age at onset	Age at surgery	Lesion group	Pathology	Additional findings	Gene	Variant position(hg19)	Transcript ID	cDNA change	Amino acid change	Variant allelic fraction	Variant class	REVEL score	CADD score	ClinVar class.	ACMG pathogenicity criteria*	ACMG pathogenicity prediction
MCD_CCF_101	F	0	0.9	MCD	FCD 2b		MTOR	chr1:11184573	NM_004958	c.C6644A	p.S2215Y	0.03	Missense	0.857	32	P/LP	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
MCD_CCF_102	M	7	19.5	MCD	FCD 2b		MTOR	chr1:11169377	NM_004958	c.A7498T	p.I2500F	0.04	Missense		33	LP	PS4 PM2 PP2 PP3 PP4	LP
MCD_CCF_102	M	7	19.5	MCD	FCD 2b		TSC1	chr9:135804196	NM_000368	c.C64T	p.R22W	0.42	Missense	0.471	25.9	CloP	PM2 PP3 PP4	VUS
MCD_EEBB_32	M	13	24	MCD	FCD 2b		NFI	chr17:29701091	NM_001042492	c.C8438T	p.T2813I	0.21	Missense	0.067	23.3	Not in ClinVar	PM2 PP2	VUS†
MCD_EEBB_67	M	20	32	MCD	FCD 2b		NFI	chr17:29677224	NM_001042492	c.G7345C	p.V2449L	0.4	Missense	0.2	25.8	Not in ClinVar	PM2 PP2 PP3	VUS†
MCD_EEBB_71	F	3	10	MCD	FCD 2b		MTOR	chr1:11188164	NM_004958	c.C5930A	p.T1977K	0.05	Missense		34	NP	PS4 PM1 PM2 PM5 PP2 PP3 PP4	P
MCD_EEBB_80	M	9	19	MCD	FCD 2b		MTOR	chr1:11184573	NM_004958	c.C6644T	p.S2215F	0.03	Missense		33	P/LP	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
MCD_EEBB_85	F	4	32	MCD	FCD 2b		PTEN	chr10:89623887	NM_001304717	c.180_181ins AA	p.L61Nfs*2	0.49	PTV			Not in ClinVar	PVS1 PM2 PM4 PM5 PP4	P
MCD_EEBB_92	M	0.2	0.9	MCD	FCD 2b		MTOR	chr1:11174399	NM_004958	c.7276delins CCCT	p.P2425_L2426insP	0.03	Missense		19.06	Not in ClinVar	PS4 PM2 PP2 PP4	LP
MCD_CCF_93	F	0	4.1	MCD	cMCD	HME / PMG / FCD 2a	AKT3	chr1:243859016	NM_005465	c.G49A	p.E17K	0.08	Missense	0.372	29.9	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
MCD_CCF_94	F	0	0.4	MCD	cMCD	HME / PMG / FCD 2a / FCD 1a	PTEN	chr10:89720720	NM_000314	c.872dupA	p.N292Kfs*6	0.74	PTV		34	P	PVS1 PS1 PM2 PM4 PP3 PP4 PP5	P
MCD_CCF_110	M	0	0.2	MCD	cMCD	HME / PMG / FCD 2a	AKT3	chr1:243859016	NM_005465	c.G49A	p.E17K	0.13	Missense	0.372	29.9	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
MCD_EEBB_14	F		1	MCD	cMCD	HME / FCD 2a	MTOR	chr1:11184573	NM_004958	c.C6644A	p.S2215Y	0.1	Missense	0.857	32	P/LP	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
MCD_EEBB_21	F	0.2	1	MCD	cMCD	HME / PMG / FCD 2a	PIK3CA	chr3:178936091	NM_006218	c.G1633A	p.E545K	0.16	Missense	0.654	33	P/LP	PS1 PM1 PM2 PP3 PP4 PP5	P
MCD_EEBB_26	F	0.5	2	MCD	cMCD	HME / PMG / FCD 2a	PIK3CA	chr3:178952085	NM_006218	c.A3140T	p.H1047L	0.19	Missense	0.359	11.75	P	PS1 PM2 PP4 PP5	LP
MCD_EEBB_28	M	0.3	0.8	MCD	cMCD	HME / FCD 2a	MTOR	chr1:11169377	NM_004958	c.A7498T	p.I2500F	0.03	Missense		33	LP	PS4 PM2 PP2 PP3 PP4	LP
MCD_EEBB_52	F	0	0.7	MCD	cMCD	HME / PMG / FCD 2a	PIK3CA	chr3:178936082	NM_006218	c.G1624A	p.E542K	0.27	Missense	0.439	27.3	P/LP	PS1 PM2 PP3 PP4 PP5	LP
MCD_EEBB_57	F	0.1	0.5	MCD	cMCD	HME / PMG / FCD 2a	AKT3	chr1:243859016	NM_005465	c.G49A	p.E17K	0.08	Missense	0.372	29.9	P	PS1 PS4 PM1 PM2 PP2 PP3 PP4 PP5	P
MCD_EEBB_57	F	0.1	0.5	MCD	cMCD	HME / PMG / FCD 2a	MTOR	chr1:11313993	NM_004958	c.C743T	p.T248I	0.47	Missense	0.223	21.4	VUS	PS4 PM2 PP2 PP4	LP
MCD_CCF_32	M	0	1.1	MCD	cMCD	PMG / FCD 2a / FCD 1a	NPRL3	chr16:169168	ENST00000399953	c.G275A	p.R92Q	0.3	Missense	0.311	33	VUS	PM2 PM5 PP3 PP4	LP
MCD_CCF_104	F	0	0.1	MCD	cMCD	PMG / FCD 2b	MTOR	chr1:11301647	NM_004958	c.A1504C	p.K502Q	0.09	Missense	0.215	25	Not in ClinVar	PS4 PM2 PP2 PP3 PP4	LP
MCD_CCF_104	F	0	0.1	MCD	cMCD	PMG / FCD 2b	TSC2	chr16:2135289	NM_000548	c.A4628G	p.H1543R	0.41	Missense	0.947	24.4	Not in ClinVar	PM2 PM5 PP3 PP4	LP

Sample	Sex	Age at onset	Age at surgery	Lesion group	Pathology	Additional findings	Gene	Variant position(hg19)	Transcript ID	cDNA change	Amino acid change	Variant allelic fraction	Variant class	REVEL score	CADD score	ClinVar class.	ACMG pathogenicity criteria*	ACMG pathogenicity prediction
MCD_EEBB_10	M	14	25	MCD	cMCD	PMG / NH / FCD 2a / GG	NRAS	chr1:115256529	NM_002524	c.A182G	p.Q61R	0.13	Missense	0.888	23.1	P	PS1 PS4 PM1 PM2 PP3 PP5	P
MCD_EEBB_65	F	1	20	MCD	cMCD	PMG / NH / FCD 2a / DNET	NRAS	chr1:115256530	NM_002524	c.C181A	p.Q61K	0.24	Missense	0.841	24.1	VUS	PS4 PM1 PM2 PM5 PP3	P
MCD_EEBB_76	M	0	0.7	MCD	cMCD	PMG / FCD 2b	MTOR	chr1:11174399	NM_004958	c.7276delins CCCT	p.P2425_L2426insP	0.04	Missense		19.06	Not in ClinVar	PS4 PM2 PP2 PP4	LP
MCD_EEBB_89	M	7	20	MCD	cMCD	PMG / FCD 1b	NFI	chr17:29483029	NM_001042492	c.C89A	p.T30K	0.03	Missense	0.332	25.8	Not in ClinVar	PM2 PP2 PP3	VUS†
MCD_EEBB_89	M	7	20	MCD	cMCD	PMG / FCD 1b	NFI	chr17:29483016	NM_001042492	c.G76T	p.G26X	0.46	PTV		36	Not in ClinVar	PVS1 PM2 PM4 PP3	P†
MCD_CCF_27	F	0	6.5	MCD	TSC	FCD2b	TSC2	chr16:2130169	NM_000548	c.3402dupC	p.H1135Pfs*33	0.45	PTV		32	Not in ClinVar	PVS1 PM2 PM4 PP3 PP4	P
MCD_CCF_29	F	0.2	3.3	MCD	TSC	FCD 2b	TSC2	chr16:2121603	NM_000548	c.C1932A	p.C644X	0.46	PTV		38	Not in ClinVar	PVS1 PM2 PM4 PP3 PP4	P
MCD_CCF_55	M	0.3	5.1	MCD	TSC	FCD2b	TSC2	chr16:2136739	NM_000548	c.T4856C	p.F1619S	0.46	Missense	0.986	28.5	NP	PM2 PP3 PP4	VUS
MCD_CCF_56	F	4	8.5	MCD	TSC	FCD2b	TSC2	chr16:2107157	NM_000548	c.826_827del	p.M276Vfs*61	0.43	PTV		26.7	P	PVS1 PS1 PM2 PM4 PP3 PP4 PP5	P

Legend to supplementary table 4: HS = Hippocampal sclerosis, MCD = Malformation of cortical development, LEAT = Low-grade epilepsy-associated tumor, FCD = Focal cortical dysplasia, MOGHE = mild MCD with oligodendroglial hyperplasia in epilepsy, HME = Hemimegalencephaly, PMG = Polymicrogyria, cMCD = complex MCD, TSC = tuberous sclerosis complex, MA = meningioangiomas, GG = Ganglioglioma, AG = Angiocentric Glioma, DNET = Dysembryoplastic neuroepithelial tumor, PA = Pilocytic Astrocytoma, PXA = Pleomorphic xanthoastrocytoma, MVNT = multinodular vacuolated neuro tumor, SEGA = Subependymal giant cell astrocytoma, PTV = Protein-truncating variant, P = Pathogenic, LP = Likely pathogenic, B = Benign, LB = Likely benign, CloP = Conflicting interpretations of pathogenicity, VUS = Variant of uncertain significance, NP = Not provided.

* Variants were evaluated based on the following ACMG criteria: PVS1, PS1, PS4, PM1, PM2, PM4, PM5, PP2, PP3, and PP4. (PVS1 = predicted null variant in a gene where loss-of-function is a known mechanism of disease, PS1 = Same amino acid change as an established pathogenic variant, PS4 = statistically significant association with pathology, PM1 = Mutational hot spot or well-studied functional domain, PM2 = Absent in population databases, PM4 = protein length changing variant, PM5 = Novel missense change at an amino acid residue where a different pathogenic missense change has been seen before, PP2 = Missense in gene with low rate of benign missense variants, PP3 = Computational evidence supports a deleterious effect on the gene / gene product, PP4 = patient's phenotype is associated with the gene.)

† Gene-disease validity has not been established. ACMG pathogenicity criteria cannot be applied so classification was done only for research purposes,

Supplementary Table 5: Somatic CNV and CNN-LOH

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
HS_EEBB_55	F	16	49	HS	HS (NOS)		9:86179563-141213431	9q21.33-34.2	Loss	55.03	0.03	2	TSC1	ABCA2, DNMI1, GABBR2, GRIN1, NOTCH1, PHF19, SCAI, SET, SPTANI1, STXBPI, WDR5	SETX, TRAF2, OLFM1, LRRC8A, KIAA0368, RALGPS1, DAB2IP, GABBR2, ERP44, BRINP1, MAPKAP1, FAMI120A, ZNF462, NOTCH1, SMC2, ZNF618, ZERI, WNK2, TSC1, ZMYND19, BRD3, ZNF483, SEC16A, RPL7A, ANAPC2, PTCH1, ANP32B, ABCA2, COL27A1, BICD2, PRRC2B, RAD23B, WDR5, PHF2, NUP214, ASTN2, NAA35, CACNA1B, GRIN1, RABL6, COL5A1, RALGDS, RAPGEF1, ABL1, NUP188, SET, SPTANI1, DNMI1, ENG, STXBPI, ZBTB34, ZBTB43, SCAI, NR5A1, LHX2, DENND1A, RABGAP1, RC3H2, RAB14, PHF19, MEGF9, PRPF4, UGCG, EPB41L4B, KLF4, SLC44A1, TEX10, NCBP1, CDC14B, SYK, SPIN1, ZCCHC6, NTRK2, HNRNPK, UBQLN1, CAMSAP1, NTNG2, PPP2R4, GAPVD1, LHX6, SVEP1, DAPK1, GOLGA2, STRBP, SEMA4D, EHMT1, RXRA, NR6A1, FBXW2
HS_EEBB_7	M	5	51	HS	HS I		22:18520612-51304566	22q	CNN-LOH	32.78	0.03	5	DEPDC5	CSNK1E, PATZ1, PLXNB2, SF3A1	RTN4R, SF3A1, MAPK1, MORC2, RPL3, MYH9, EIF3D, RBX1, BRD1, GNAZ, RAC2, CELSR1, SHANK3, SMARCB1, UFD1L, MED15, HIRA, EP300, PATZ1, KCNJ4, BCR, PHF21B, SPECC1L, PRR14L, FBLN1, MAPK8IP2, SULT4A1, PITPNB, NF2, GGA1, DGCR8, ZC3H7B, LARGE, MKL1, API1B, XRCC6, TCF20, PIM3, SCUBE1, SBF1, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1I, ELFN2, GRAMD4, CBX6, EWSR1, RBF0X2, HIC2, PLXNB2, TNRC6B, ZNRF3
HS_EEBB_81	F	2	25	HS	HS I	FCD 3a	19:50401320-59128983	19q13.42-13.43	CNN-LOH	8.73	0.03	2		BRSK1, PPP2R1A, PRKCG, PRPF31, SHANK1, UZAF2	TRIM28, ZNF331, PRKCG, SHANK1, UZAF2, BRSK1, PRPF31, PPP2R1A, LENG8, TTYH1, CNOT3, PPP6R1, RPSS, NUP62, MYH14
HS_EEBB_17	M	20	26	HS	HS 2	FCD 3a	19:54462369-59128983	19q13.42-13.43	CNN-LOH	4.67	0.02	2		BRSK1, PRPF31, UZAF2	TRIM28, UZAF2, BRSK1, PRPF31, LENG8, TTYH1, CNOT3, PPP6R1, RPSS
LEAT_EEBB_46	M	10	20	LEAT	AG		6:135521495-141454143	6q23.3-24.1	Loss	5.93	0.69	2	MYB		TNFAIP3, KIAA1244, REPS1, MAP3K5
LEAT_EEBB_110	M	6	15	LEAT	AG		6:135543837-163969815	6q23.3-24.1	Loss	28.43	0.20	2			FBXO5, TNFAIP3, KIAA1244, REPS1, TCP1, STXBPS, ZBTB2, ARID1B, IGFBP2, WTAP, MAP3K5, PLAGL1, TULP4, SCAF8, TAB2, HIVEP2, MAP3K4, ESR1, LATS1
LEAT_EEBB_19	F	15	16	LEAT	DGG		5:71661131-180915260	5q13.2-35.2	Loss	109.25	0.23	1		ANKHD1, CAMK2A, CANX, CSNK1A1, CYFIP2, DDX46, ETF1, HDAC3, HNRNP1H1, IK, KDM3B, LARPI, NR2F1, PPP2CA, PURA, RBM22, TCERGI, UNC5A, ZMAT2	LCP2, YTHDC2, RBM22, LOX, LNPEP, NR3C1, ELL2, IRF1, ADAMTS2, PDLIM4, NDFIPI, AP3B1, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, PDE8B, SOX30, VCAN, CPEB4, FBXW11, ARRD3, RBM27, JAKMIP2, VDACA1, AFF4, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CHD1, PCDH1, HMGC, PCDHAC2, DBN1, MAMLI1, TCERGI, UTP15, RAPGEF6, NPM1, CREBRF, ANKHD1, HSPA9, CTNNA1, GPRIN1, HSPA4, ZNF608, PCDHGC4, PWWP2A, KLHL3, DMXL1, EBF1, KDM3B, TRIM41, SSBRF, NKX2-5, UNC5A, PURA, EFNA5, HOMER1, LARPI, PPP2R2B, TNPO1, DPYSL3, SEMA6A, DDX46, HNRNP1H1, ETF1, NRG2, KIF3A, SNX2, FAMI169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, FCHO2, NSD1, MGAT1, APC, PPP2CA, TCOF1, KCTD16, FBN2, FNIP1, KCNN2, GNB2L1, CTC-432M15.3, FAMI93B, CSNK1A1, TENM2, GRIAI, RNFI45, SLIT3, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5
LEAT_EEBB_19	F	15	16	LEAT	DGG		9:73909871-86175639	9q21.12-21.32	Loss	12.27	0.22	1			GDA, GNAQ, ALDH1A1, TLE1, TLE4, RORB
LEAT_EEBB_19	F	15	16	LEAT	DGG		9:88234954-137530346	9q21.33-34.2	Loss	49.30	0.23	2	TSC1	DNMI1, GABBR2, PHF19, SCAI, SET, SPTANI1, STXBPI, WDR5	SETX, LRRC8A, KIAA0368, RALGPS1, DAB2IP, GABBR2, ERP44, BRINP1, MAPKAP1, FAMI120A, ZNF462, SMC2, ZNF618, ZERI, WNK2, TSC1, BRD3, ZNF483, RPL7A, PTCH1, ANP32B, COL27A1, BICD2, PRRC2B, RAD23B, WDR5, PHF2, NUP214, ASTN2, NAA35, RALGDS, RAPGEF1, ABL1, NUP188, SET, SPTANI1, DNMI1, ENG, STXBPI, ZBTB34, ZBTB43, SCAI, NR5A1, LHX2, DENND1A, RABGAP1, RC3H2, RAB14, PHF19, MEGF9, PRPF4, UGCG, EPB41L4B, KLF4, SLC44A1, TEX10, NCBP1, CDC14B, SYK, SPIN1, ZCCHC6, NTNG2, PPP2R4, GAPVD1, LHX6, SVEP1, DAPK1, GOLGA2, STRBP, SEMA4D, RXRA, NR6A1, FBXW2
LEAT_EEBB_19	F	15	16	LEAT	DGG		22:23754578-51304566	22q	Loss	27.55	0.22	4	DEPDC5	CSNK1E, PATZ1, PLXNB2, SF3A1	SF3A1, MORC2, RPL3, MYH9, EIF3D, RBX1, BRD1, RAC2, CELSR1, SHANK3, SMARCB1, EP300, PATZ1, KCNJ4, PHF21B, SPECC1L, PRR14L, FBLN1, MAPK8IP2, SULT4A1, PITPNB, NF2, GGA1, ZC3H7B, LARGE, MKL1, API1B, XRCC6, TCF20, PIM3, SCUBE1, SBF1, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1I, ELFN2, GRAMD4, CBX6, EWSR1, RBF0X2, PLXNB2, TNRC6B, ZNRF3
LEAT_EEBB_33	M	14	17	LEAT	DNET		6:0-171115067	6	Gain	171.12	0.01	8	MYB	GTPBP2, JARID2, KLHDC3, PPP2R5D, TMEM63B, TRERFI, XPO5	TFAP2D, RANBP9, TRAM2, FBXO5, TNFAIP3, DST, ATXN1, KIAA1244, CUL9, BACH2, REPS1, FAM65B, KIF13A, TMEM63B, TTBK1, GCM1, POU5F1, PHF3, NUP153, PSMB1, XPO5, SRF, SCUBE3, PHIP, C6orf136, PPARD, GLTSCR1L, EEF1A1, DEF6, TCP1, STXBPS, COL12A1, ZBTB2, RPS10, KLHDC3, TUBB, EPB41L2, PRPF4B, JARID2, KCNQ5, ARID1B, E2F3, DOPEY1, FYN, IGF2R, BRPF3, WTAP, REV3L, MAP3K5, ANKSA1A, SLC35F1, PLAGL1, ZNF318, DLL1, THBS2, TULP4, SCAF8, TAB2, HIVEP2, PTPRK, HSF2, NUS1, AMD1, CDK19, CDC40, NR2E1, ATG5, PRDM1, SMI1, PNISR, EPHA7, MAP3K7, MDN1, ZNF292, SYNCRIP, TBX18, SMAP1, BA13, LRRC1, RUNX2, CDC5L, HSP90AB1, UBR2, TRERFI, CNND3, USP49, FOXP4, CMTR1, RNFB, SRSF3, SPDEF, PHF1, RXRB, COL11A2, PBX2, ZBTB12, BAG6, PRRC2A, PPP1R10, GNLI, TRIM39, GABBR1, TRIM27, C6orf62, HIVEP1, TFAP2A, DSP, RREB1, GMD5, MLLT4, MAP3K4, WASFI, TFAP2B, PFDN6, BRD2, AGPAT1, DDX39B, CDYL, DAAM2, SYNGAP1, FAMI35A, GRIK2, BEND3, MDGA1, SNAP91, RPS18, ESR1, SENP6, PTK7, PPP2R5D, HDAC2, CCNC, RIMS1, L3MBTL3, GRM4, PACSINI, PDE10A, LATS1
LEAT_EEBB_36	M	3	8	LEAT	DNET		7:138562547-140335570	7q34	Gain	1.77	0.20	2			MKRN1, HIPK2, KIAA1549, UBN2
LEAT_EEBB_41	M	2	3	LEAT	DNET		8:0-38684853	8p	CNN-LOH	38.68	0.11	2	FGFR1	XPO7	XPO7, DLCI1, ATP6V1B2, CCR2, DPYSL2, PPP2R2A, WHSC1L1, EGR3, RBPMS, ASH2L, NRG1, FGF17, MAK16, CNOT7, LZTS1, HMBOX1, PTK2B, INTS10, UNC5D, XKR6, DLGAP2, FGFR1, PURG, EBF2
LEAT_EEBB_49	F	30	33	LEAT	DNET		19:44544237-59128983	19q13.31-13.4	Loss	14.58	0.05	1		AP2A1, BRSK1, CA11, CALM3, CLPTM1, GRIN2D, IRF2BP1, LMTK3, NOVA2, PPFIA3, PPP2R1A, PPP5C, PRKCG,	PPP5C, BCL3, RELB, SLC17A7, RASIP1, VASP, SYMPK, TSKS, PVRL2, TRIM28, ZC3H4, ZNF331, MARK4, GRIN2D, PRKCG, SAE1, RPS11, SHANK1, IRF2BP1, ZNF296, UZAF2, BRSK1, PRPF31, PPP2R1A, LENG8, PPFIA3, CLPTM1, FOSB, AP2A1, SCAF1, TTYH1, STRN4, GLTSCR1, ARHGAP35, CNOT3, PPP6R1, PRR12, TOMM40, PRKD2, PRMT1, RPL18, RUVBL2, RPSS, NUP62, SNRNP70, MYH14, NPAS1

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
														PRMT1, PRPF31, PRR12, SHANK1, SLC8A2, TOMM40, UZAF2	
LEAT_EEBB_49	F	30	33	LEAT	DNET		20:0-22746255	20p	Loss	22.75	0.03	1		CENPB	CSNK2A1, JAG1, SNAP25, PCSK2, ATRN, LZTS3, PLCB1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH
LEAT_EEBB_55	M	23	25	LEAT	DNET		2:0-25424397	2p25.3-23.3	Loss	25.42	0.26	1		VSNL1	TRIB2, ATAD2B, KIDINS220, ASAP2, RPS7, ADAM17, ROCK2, RNFI44A, PUM2, DDX1, NCOA1, MYT1L
LEAT_EEBB_55	M	23	25	LEAT	DNET		2:25568821-63939417	2p23.3-15	Gain	38.37	0.21	1		CAD, FBXO11, PPP1CB, XPO1	MSH2, NRBP1, PAPOLG, SIX3, EHBPI, CAD, RAB10, KIF3C, FOSL2, CRIM1, ZFP36L2, DPYSL5, REL, MEMO1, SIX2, PRKCE, SRSF7, SPAST, BCL11A, CCD8B8A, PPM1G, ZNF512, SPTBN1, GTF3C2, CCT4, EFEMP1, PPP1CB, USP34, XPO1, SLC8A1, FBXO11, PSME4, NRXN1, WDR43, HNRNPL, BIRC6, SOS1, ASXL2, EIF2B4
LEAT_EEBB_55	M	23	25	LEAT	DNET		8:49729020-94305178	8q11.21-22.1	Loss	44.58	0.11	1	MYBL1		RB1CC1, RDH10, ARFGF1, RAB2A, ST18, MMP16, VCPIP1, PLAG1, XKR4, ZNF704, EYA1, RPL7, COPS5, TOX, CHD7, ZBTB10, RUNX1T1, NCOA2, WWP1, STMN2, LYN, ZFH4, MYBL1, KCNB2, STAU2, YTHDF3
LEAT_EEBB_55	M	23	25	LEAT	DNET		13:28150993-115169878	13	Loss	87.02	0.26	2		MYCBP2, NBEA	AKAP11, FLT3, EFN2B, DCLK1, IPO5, KPNA3, RBI, RBM26, ZC3H13, FLT1, DACHI, INTS6, PDSS5B, HSPH1, COG3, FBXL3, MYO16, CHAMP1, TFDPI, CUL4A, ARHGFE7, COL4A1, TNFSF13B, FAM155A, TPP2, TM9SF2, DOCK9, HS65T3, SLITRK1, SPRY2, KLF12, KBTBD6, FOXO1, FRY, SLC7A1, PAN3, LRCH1, NBEA, MTUS2, TSC22D1, FNDC3A, MYCBP2
LEAT_EEBB_55	M	23	25	LEAT	DNET		15:23833737-60664030	15q11.2-22.2	Loss	36.83	0.05	1		RTFI	AQR, MGA, DLL4, CTDSP2, THBS1, ADAM10, HERC2, TTBK2, UBR1, SPRED1, COPS2, LEO1, MAP1A, PDIA3, PYGO1, OTUD7A, RASGRP1, GABRB3, SEMA6D, FBN1, TPI1, CASC5, ZNF770, INO80, SLM, TP53BP1, RYR3, RTF1, UBE3A, MYO5A, BAH1, FRMD5, RFX7, USP8, MAGEL2, DMXL2, RNFI11, MEIS2
LEAT_EEBB_75	M	6	12	LEAT	DNET		2:0-243199373	2	Gain	243.20	0.01	3		CAD, FBXO11, HDLBP, MAP4K4, PPP1CB, PPP3R1, RQCD1, SCN2A, SF3B1, SNRNP200, UNC80, VSNL1, XPO1	CYP26B1, INPP4A, TRIB2, TMEI131, MSH2, NRBP1, PCGF1, IGFBP5, PPP1R7, DLX2, PAPOLG, ATAD2B, AFTPH, ACVR2A, RIFI, ILKAP, PER2, KIDINS220, CCT7, USP37, REV1, EPC2, SIX3, PPIG, HECW2, SLC40A1, ACTR3, POLR1B, TFCP2L1, PTPN4, CLASP1, LRP2, POLR1A, EHBPI, ATF2, MCM6, CCNT2, R3HDM1, AGPS, ADAM23, CUL3, ADD2, CAD, RAB10, KIF3C, FOSL2, VPS54, MEIS1, AMMECR1L, CTDSP1, RQCD1, CRIM1, ASAP2, EPHA4, ZFP36L2, RANBP2, SCN3A, TRIP12, FMNL2, DPYSL5, EIF5B, REL, MEMO1, KCNJ3, EN1, INHBB, IWS1, FZD5, ARPC2, CTLL4, SIX2, SCN1A, ANTXR1, AGAPI, COL3A1, RPS7, SEMA4C, PRKCE, MAT2A, PSMD1, KLF7, CFLAR, SP3, SNED1, ADAM17, SPEG, SRSF7, SPAST, ROCK2, RAPH1, GLS, RNFI44A, WDR33, NCL, SNRNP200, DIS3L2, FIGN, SF3B1, NPAS2, BCL11A, CCD8B8A, PUM2, NR4A2, ERBB4, PPM1G, HDAC4, MAP4K4, FNI, ZNF512, STK39, AFF3, SPTBN1, GFPT1, SCN2A, ARID5A, SAPI30, GTF3C2, INPP5D, MAP2, NCKAP1, STAT1, DLX1, BMPR2, COL5A2, RND3, ACTR2, DDX1, HSPD1, LRP1B, TBRI, HDLBP, ATG16L1, SPHKAP, XRCC5, STAT4, OSBP16, HNRNPA3, BAZ2B, GALNT13, DPP10, CCT4, EFEMP1, SP9, PPP1CB, MOB1A, RAPGEF4, USP34, XPO1, SLC8A1, INO80D, FBXO11, PSME4, ATG4B, NRXN1, NCOA1, MBD5, WDR43, AAK1, SLC39A10, ARHGAP25, TET3, GIGYF2, ZNF638, KDM3A, ATG9A, HNRNPL, MGAT5, PSMD14, KCMF1, MAP3K2, AGFG1, CALCRL, SATB2, UBR3, BIRC6, SOS1, TMEI185B, MYT1L, SESTD1, PAX8, CNTNAP5, TLKI, KANSL3, CREB1, KIF5C, ASXL2, UNC80, EIF2B4, GLI2, BZW1, IKZF2, KIF1A, FBXO41, REEP1, ZEB2, HSP6-MOB4
LEAT_EEBB_75	M	6	12	LEAT	DNET		7:0-147731239	7	Gain	147.73	0.02	18	BRAF	CAMK2B, OGDH, PSMC2, RAC1	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, PTPN12, LRRC4, MKRN1, IGF2BP3, TTYH3, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNA12, EGFR, CCT6A, NUP205, DGKI, BRAF, C7orf60, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CDC132, USP42, VYHAG, ZMIZ2, MEPC2, ELMO1, KMT2E, ING3, MET, ZKSCAN1, GTF21, AHCYL2, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, VWC2, AUTS2, TRIM24, RAPGEF5, C7orf26, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNJA2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, GRB10, TNS3, SEPT7, HIPK2, TBX20, FOXP2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAMI31B, CADPS2, GTF2IRD1, UBN2, LHFPPL3, CNOT4
LEAT_EEBB_75	M	6	12	LEAT	DNET		7:138550994-140481402	7q34	Gain	1.93	0.30	2	BRAF		MKRN1, BRAF, HIPK2, KIAA1549, UBN2
LEAT_EEBB_75	M	6	12	LEAT	DNET		12:49424065-51343851	12q13.12	Gain	1.92	0.32	1		SMARCD1	AS1C1, KCNH3, KMT2D, TUBA1A, DIP2B, TUBA1B, SMARCD1, LARP4, PRPF40B, SPATS2
LEAT_EEBB_81	M	45	59	LEAT	DNET		8:0-42446238	8p	CNN-LOH	42.45	0.04	2	FGFR1	XPO7	SFRP1, XPO7, ANK1, DLCL1, ATP6V1B2, CCAR2, DPYSL2, PPP2R2A, WHSC1L1, EGR3, RBPMS, SLC20A2, ASH2L, NRG1, FGF17, MAKI6, CNOT7, LZTS1, KAT6A, HMBBOX1, PTK2B, INTS10, UNC5D, XKR6, DLGAP2, FGFR1, PURG, EBF2, IKKB6, VDCA3
LEAT_EEBB_104	M	5	17	LEAT	DNET		4:0-191154276	4	Gain	191.15	0.12	5		ABCE1, ANKRD17, CTBP1, DHX15, POLR2B, PPP3CA, SMARCA5, WDFY3	BOD1L1, PHOX2B, NFKB1, PDGFRA, UBE2K, KDR, PPAR, COPS4, RASGEF1B, RAPGEF2, FNIP2, ADD1, PPARGCC1A, SEPT11, CNOT6L, CENPE, LEF1, SEC24B, CCNA2, NAF1, RPS3A, GPM6A, FBXW7, GRID2, SMARCA5, UCHL1, KIT, CTBP1, GABRB1, WDFY3, HMG2B, GRIA2, NAA15, HHIP, ABCE1, DCLK2, PDSSA, LDB2, PITX2, KIAA0232, REST, CLOCK, LINC011, HNRNPD, EDNRB, FAMI193A, CRMP1, DHX15, TRIM2, RAPIGDS1, LINS4, FBXL5, RBPJ, YTHDC1, CLCN3, HTT, ANK2, NR3C2, FRYL, ANKRD17, SMARCA1, G3BP2, PCGF3, ZNF827, POLR2B, ATP8A1, RBM47, RFC1, WHSC1, ELF2, FAT4, ELOVL6, PPP3CA, AFF1, CPE, JAKMIP1, KIAA0922, SLC44A, BMPR1B, RPL9, RELL1, OTUD4, PLRG1, WDR1, BEND4, PDGFC, ANKRD50, SLIT2, CDKN2AIP, MAML3, GABRA2, TENM3, LPHN3, KLHL2, SMAD1
LEAT_EEBB_104	M	5	17	LEAT	DNET		6:0-171115067	6	Gain	171.12	0.11	8	MYB	GTPBP2, JARID2, KLHDC3, PPP2R5D, TMEI63B, TRERF1, XPO5	TFAP2D, RANBP9, TRAM2, FBXO5, TNFAIP3, DST, ATXN1, KIAA1244, CUL9, BACH2, REPS1, FAM65B, KIF13A, TMEI63B, TTBK1, GCM1, POU5F1, PHF3, NUP153, PSMB1, XPO5, SRF, SCUBE3, PHIP, C6orf136, PPARD, GLTSCR1L, EEF1A1, DEF6, TCP1, STXBPS, COL12A1, ZBTB2, RPS10, KLHDC3, TUBB, EPB41L2, PRPF4B, JARID2, KCNQ5, ARID1B, EZF3, DOPEY1, FYN, IGF2R, BRPF3, WTAP, REV3L, MAP3K5, ANKS1A, SLC35F1, PLAGL1, ZNF318, DLL1, THBS2, TULP4, SCAF8, TAB2, HIVEP2, PTPRK, HSF2, NUS1, AMD1, CDK19, CDC40, NR2E1, ATG5, PRDM1, SIM1, PNISR, EPHA7, MAP3K7, MDN1, ZNF292, SYNCRIP, TBX18, SMAP1, BA13, LRRC1, RUNX2, CDC5L, HSP90AB1, UBR2, TRERF1, CCND3, USP49, FOXPM4, CMTR1, RNFB, SRSF3, SPDEF, PHF1, RXRB, COL11A2, PBX2

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
															ZBTB12, BAG6, PRRC2A, PPP1R10, GNLI, TRIM39, GABBR1, TRIM27, C6orf62, HIVEP1, TFAP2A, DSP, RREB1, BMD5, MLLT4, MAP3K4, WASFI, TFAP2B, PFDN6, BRD2, AGPAT1, DDX39B, CDYL, DAAM2, SYNGAP1, FAM135A, GRIK2, GEMDS, MDGA1, SNAP91, RPS18, ESR1, SENP6, PTK7, PPP2R5D, HDAC2, CCNC, RIMS1, L3MBTL3, GRM4, PACSINI, PDE10A, LATSI
LEAT_EEBB_104	M	5	17	LEAT	DNET		7:0-159138663	7	Gain	159.14	0.12	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAPI, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPC2, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YWV2, AUTS2, TRIM24, RARGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAJC2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
LEAT_EEBB_104	M	5	17	LEAT	DNET		9:0-141213431	9	Gain	141.21	0.12	2	TSC1	ABCA2, DNMI1, GABBR2, GRIN1, NOTCH1, PHEF19, SCAI, SET, SMU1, SPTAN1, STXBPI, TLN1, VCP, WDR5	SETX, GDA, CLTA, TAF1L, TRAF2, OLFM1, LRRC8A, KIAA0368, RALGPS1, DAB2IP, GABBR2, RNF38, ERP44, UBE2R2, BRINP1, MAPKAP1, UHRF2, FAM120A, ZNF462, NOTCH1, SMC2, GNAQ, ZNF618, ZERI, ALDH1A1, WNK2, NOL6, TSCI, ZMYND19, BRD3, ZNF483, SEC16A, TLN1, RPL7A, ANAPC2, PTCH1, TESK1, ANP32B, ABCA2, COL27A1, BICD2, PRRC2B, RAD23B, PAX5, WDR5, VCP, PHF2, NUP214, TOPORS, ASTN2, NAA35, CACNA1B, GRIN1, RABL6, COL5A1, RALGDS, RARGEF1, ABL1, NUP188, SET, SPTAN1, DNMI1, ENG, STXBPI, ZBTB34, ZBTB43, SCAI, NR5A1, LHX2, DENND1A, RABGAP1, RC3H2, RAB14, PHEF19, MEGF9, PRPF4, UGCG, EPB41L4B, KLF4, SLC44A1, TEX10, NCBP1, CDC14B, SYK, SPIN1, ZCCHC6, NTRK2, HNRNPK, UBQLN1, TLE1, TLE4, RORB, SHB, CNTFR, TEK, MLLT3, RPS6, BNC2, PSIP1, NFIB, PTPRD, JAK2, CDC37L1, RFX3, SMARCA2, CAMSAP1, NTNG2, PPP2R4, GAPVD1, LHX6, SMU1, ELAVL2, SVEP1, DAPK1, GOLGA2, STRBP, SEMA4D, RUSC2, EHMT1, RXRA, NR6A1, FBXW2
LEAT_EEBB_104	M	5	17	LEAT	DNET		11:0-135006516	11	Gain	135.01	0.13	5		ADRBK1, B3GNT1, CKAP5, CNH2, DDB1, DPF2, GANAB, GNG3, GRAMD1B, KDM2A, KMT2A, LTBP3, MARK2, MEN1, MUC5B, NXF1, PCNXL3, PLCB3, PPP2R5B, PRPF19, PSMC3, RPS6KA4, SART1, SSRP1, SYVN1	TTC17, PPP2R5B, SPI1, PRPF19, MAPK8IP1, COPB1, PPFIA1, RRAS2, DAGLA, PRKRIR, DCUN1D5, EED, ARHGEF17, POLD3, FNBP4, OSBP, DDX6, ARCN1, NRXN2, FBXO3, GTF2H1, KCNC1, FAM160A2, LRRC4C, SERPING1, SSRP1, TENM4, ZC3H12C, HMBS, MYRF, FADS2, CWC15, VPS26B, YAP1, ZDHHC5, SIK3, C11orf84, LRPS, FAT3, PCF11, PKNOX2, PSMC3, APBB1, DCHS1, PATL1, RRM1, DDB1, HNRNPUL2, LTBP3, SUV420H1, SIK2, STIPI, CHRMI1, RSF1, ADRBK1, RBM14, ARHGAP32, RAB6A, NPAS4, CNH2, SART1, CLCF1, PPP1CA, AMBRA1, ZFP91, FXJ1, PACS1, EHD1, DSCAM1L1, SF3B2, CSTF3, NUP98, KCNA4, PMEPI, EEF1G, RPS6KA4, PDE2A, BCL9L, ZBTB16, SPTY2D1, C2CD2L, MEN1, USP47, CPSE7, CAPRIN1, GANAB, FARI, ANO1, PCNXL3, UVRRG, FAM168A, MPPED2, CTR9, GAB2, DLG2, SYVN1, ATG2A, SFI, AHNAK, IPO7, BRSK2, ARNTL, CUL5, PICALM, NUMA1, PPP6R3, INCENP, NAV2, SOX6, ARHGEF12, CTNND1, QSER1, MARK2, HYUO1, RDX, RELA, RBM4, RBM14-RBM4, KLC2, PHF21A, GRM5, PSMA1, PAX6, ARRB1, TBCEL, PRDM11, PSMD13, CHRM4, AP2A2, WEE1, MAML2, TRIM3, KIRREL3, ZBTB44, TRAF6, FLJ1, DPF2, ATG13, KDM2A, C11orf30, CREB3L1, CKAP5, MUC5B, GRAMD1B, AP5, FZD4, RNF214, CELF1, NXF1, EIF3F, IGSF9B, ST5, KMT2A, HSPA8, OTUB1, PLCB3, SYT7
LEAT_EEBB_104	M	5	17	LEAT	DNET		14:19000000-107349540	14q	Gain	88.35	0.12	2		ACIN1, CHD8, DYNC1H1, JPH4, MTA1, PSMC6, RBM25, RNF31, SUPT16H, UNC97, ZNF219	MAP4K5, PPP1R13B, GZE3, PAPOLA, SUPT16H, SOS2, PSMA3, AHSIA, EIF5, NFKBIA, TGF3B, BMP4, ZC3H14, UNC97, VRTN, EIF2S1, PSMC1, PSMA6, SNW1, CYP46A1, RBM25, RPS6KAS, YY1, RCOR1, ACIN1, YTN1, ITPK1, AKAP6, ELMSAN1, FBXO33, TRIM9, PCNX, RALGAP1, MMP14, HNRNPC, DDHD1, RNF31, PRMT5, PSENI1, PPM1A, YLPM1, TTC7B, MTA1, JAG2, ELM1, SEL1L, PPP2R5E, DCAF5, FBLN5, FERMT2, ARHGAP5, ARID4A, PRPF39, NPAS3, CALM1, BCL11B, ATL1, TCEPR2, DYNC1H1, BAZIA, ZNF219, CDC42BPB, PSMB5, SPTB, CCNK, SAMD4A, INF2, EVL, ACTN1, ZBTB1, DAAMI1, JPH4, HECTD1, CHD8, TOX4, EXOC5, CEPI70B, PPP2R5C, MDGA2, BEGAIN, PSMC6, PACS2, SCFD1, GPHN, DICER1, HIF1A, NOVA1, GTF2A1, AKT1, SMEK1, NRXN3, SIPA1L1, NAA30, SRP54, TRAF3
LEAT_EEBB_104	M	5	17	LEAT	DNET		20:0-63025520	20	Gain	63.03	0.12	10		CENPB, TOP1	SALL4, CSTFI, EEF1A2, CSNK2A1, CHMP4B, SOGAI, PLAGL2, TAF4, LAMA5, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSE1L, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS3, SSI18L1, TCFL5, GGT7, PLCB1, EPB41L1, ATP9A, PMEPA1, EZF1, CBFA2T2, SYCP2, KCNQ2, C20orf112, TOP1, YTHDF1, MRGBP, PSMA7, PHACTR3, ZNF217, TSHZ2, B4GALT5, KCNB1, STAU1, ARFGF2, PREX1, NCOA3, PCIF1, YWHAB, PTPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPRE1, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH, RGS19, RAE1, NFATC2, ADNP, ZNFX1, TM9SF4, SPATA2, ZNF512B, SLC12A5, ZMYND8
LEAT_EEBB_105	F	38	39	LEAT	DNET		6:0-171115067	6	Gain	171.12	0.02	8	MYB	GTPBP2, JARID2, KLHDC3, PPP2R5D, TMEM63B, TRERF1, XPO5	TFAP2D, RANBP9, TRAM2, FBXOS, TNFAIP3, DST, ATXN1, KIAA1244, CUL9, BACH2, REPS1, FAM65B, KIF13A, TMEM63B, TTBK1, GCMI1, POU5F1, PHF3, NUP153, PSMB1, XPO5, SRF, SCUBE3, PHIP, C6orf136, PPARD, GLTSCR1L, EEF1A1, DEF6, TCP1, STXBP5, COL12A1, ZBTB2, RPS10, KLHDC3, TUBB, EPB41L2, PRPF4B, JARID2, KCNQ5, ARID1B, EZF3, DOPEY1, FYN, IGF2R, BRPF3, WTAP, REV3L, MAP3K5, ANKSA1A, SLC35F1, PLAGL1, ZNF318, DLL1, THBS2, TULP4, SCAF8, TAB2, HIVEP2, PTPRK, HSF2, NUS1, AMD1, CDK19, CDC40, NR2E1, ATG5, PRDM1, SIM1, PNISR, EPHA7, MAP3K7, MDM1, ZNF292, SYNCRIP, TBX18, SMAP1, BA13, LRRC1, RUNX2, CDC5L, HSP90AB1, UBR2, TRERF1, CCND3, USP49, FOXP4, CMTR1, RNF8, SRSF3, SPDEF, PHF1, RXRB, COL1A2, PBX2, ZBTB12, BAG6, PRRC2A, PPP1R10, GNLI, TRIM39, GABBR1, TRIM27, C6orf62, HIVEP1, TFAP2A, DSP, RREB1, BMD5, MLLT4, MAP3K4, WASFI, TFAP2B, PFDN6, BRD2, AGPAT1, DDX39B, CDYL, DAAM2, SYNGAP1, FAM135A, GRIK2, GEMDS, MDGA1, SNAP91, RPS18, ESR1, SENP6, PTK7, PPP2R5D, HDAC2, CCNC, RIMS1, L3MBTL3, GRM4, PACSINI, PDE10A, LATSI
LEAT_EEBB_105	F	38	39	LEAT	DNET		7:0-159138663	7	Gain	159.14	0.08	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAPI, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPC2, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YWV2, AUTS2, TRIM24, RARGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAJC2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3,

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
															HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
LEAT_EEBB_I	F	14	15	LEAT	GG		5:0-180915260	5	Gain	180.92	0.20	11		ANKHD1, CAMK2A, CANX, CSNK1A1, CYFIP2, DDX46, ETF1, HDAC3, HNRNP11, IK, KDM3B, LARPI, NR2F1, PPP2CA, PURA, RBM22, TCERG1, UNCSA, ZMAT2	LCP2, YTHDC2, TRIP13, RBM22, SKIV2L2, PAPP7, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDLIM4, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDE8B, SLC9A3, SOX30, ZFR, CDH6, VCAN, CPEB4, FBXW11, SLC1A3, ARDC3, RBM27, JAKMIP2, VDACL1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH1, HMGC9, PCDHAC2, DBN1, MAMLI1, KIAA0947, TCERG1, MAP1B, UTP15, RAPGEF6, NPM1, CREBFB, ANKHD1, HSPA9, PTGER4, CTNNA1, HCN1, GPRIN1, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PWWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGCS1, SNX18, NKX2-5, UNCSA, PURA, EFNA5, RGS7BP, HOMER1, LARPI, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYSL3, SEMA6A, TRIO, DDX46, HNRNP11, RICTOR, ETF1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCOF1, DDX4, ERBB2IP, KCTD16, FBN2, ZNF131, FNIPI, DROSHA, KCNN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNF145, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5
LEAT_EEBB_I	F	14	15	LEAT	GG		7:0-159138663	7	Gain	159.14	0.21	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CTK6, ANK1, GNAI2, EGFR, COT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACEH, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, VWC2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNP2A1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAJC2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
LEAT_EEBB_I	F	14	15	LEAT	GG		11:0-135006516	11	Gain	135.01	0.20	5		ADRBK1, B3GNT1, CKAP5, CNH2, DDB1, DPF2, GANAB, GNG3, GRAMD1B, KDM2A, KMT2A, LTBP3, MARK2, MEN1, MUC5B, NXF1, PCNXL3, PLCB3, PPP2R5B, PRPF19, PSMC3, RPS6KA4, SART1, SSRP1, SYVN1	TTC17, PPP2R5B, SPI1, PRPF19, MAPK8IP1, COPB1, PPFIA1, RRAS2, DAGLA, PRKRIR, DCUN1D5, EED, ARHGEF17, POLD3, FNBP4, OSBP, DDX6, ARCN1, NRXN2, FBXO3, GTF2H1, KCNC1, FAM160A2, LRRC4C, SERPING1, SSRP1, TENM4, ZC3H12C, HMBS, MYRF, FADS2, CWC15, VPS26B, YAP1, ZDHHC5, SIK3, C11orf84, LRPS, FAT3, PCF11, PKNOX2, PSMC3, APBB1, DCHS1, PATL1, RRM1, DDB1, HNRNPUL2, LTBP3, SUV420H1, SIK2, STIP1, CHRM1, RSF1, ADRBK1, RBM14, ARHGAP32, RAB6A, NPAS4, CNH2, SART1, CLCF1, PPI1CA, AMBRA1, ZFP91, FJX1, PACS1, EHD1, DSCAM1L1, SF3B2, CSTF3, NUP98, KCNA4, PME1, EEF1G, RPS6KA4, PDE2A, BCL9L, ZBTB16, SPTY2D1, C2CD2L, MEN1, USP47, CPSF7, CAPRIN1, GANAB, FARI, ANO1, PCNXL3, UVRRG, FAM168A, MPPED2, CTR9, GAB2, DLG2, SYVN1, ATG2A, SFI, AHNAK, IPO7, BRSK2, ARNTL, CUL5, PICALM, NUMA1, PPP6R3, INCENP, NAV2, SOX6, ARHGEF12, CTNND1, QSER1, MARK2, HYOU1, RDX, RELA, RBM4, RBM14-RBM4, KLC2, PHF21A, GRM5, PSMA1, PAX6, ARRB1, TBCEL, PRDM11, PSMD13, CHRM4, AP2A2, WEE1, MAMLI2, TRIM3, KIRREL3, ZBTB44, TRAF6, FLI1, DPF2, ATG13, KDM2A, C11orf30, CREB3L1, CKAP5, MUC5B, GRAMD1B, APIS, FZD4, RNF214, CELF1, NXF1, EIF3F, IGSF9B, ST5, KMT2A, HSPA8, OTUB1, PLCB3, SYT7
LEAT_EEBB_I	F	14	15	LEAT	GG		12:0-133851895	12	Gain	133.85	0.20	8	KRAS, PTPN11	ANKRD52, ATP2B1, CHD4, CS, DDX23, GCN1L1, HECTD4, LRP1, NAA25, NAB2, PA2G4, PLXNC1, RARG, SCN8A, SETD1B, SMARCC2, SMARCC1, STAT2, USP5	SENPI1, HDAC7, FOXJ2, TNFRSF1A, CBX5, SART3, ASIC1, CSRN2P, CNOT2, USPS, HCFC2, RAB35, LRPI, SLC38A2, MSII, HNF1A, TBX3, GDF11, ESPL1, KCNH3, KCNMB4, PLXNC1, SLC41A2, WBP11, ATF7IP, NAPI1L, ASUN, CDK17, CCND2, LR6, CORO1C, LPCAT3, CUX2, LHX5, NAA25, ATP5B, PTGES3, EIF4B, COPZ1, CLSTN3, SMARCC2, ANKRD52, SETD1B, DUSP6, USP15, BTBD11, EPS8, MED13L, NCKAP1L, ITGAS, FRS2, C2T2, TMEM132B, HSP90B1, STAT6, GCN1L1, KMT2D, TUBA1A, DIP2B, PA2G4, LEMD3, DHX37, TBX5, STAT2, WNK1, MLXIP, PIPN2M2, ULK1, EEA1, EZF7, SPI1, FBXO21, RSRC2, XPOT, ARID2, PTPR8, TUBA1B, SARNP, ZCCHC8, FAM60A, NOS1, KSR2, PPP1CC, HNRNP1A, NTN4, DYRK2, RNF41, R3HDM2, CACNA1C, CS, PTPN11, SPPL3, SCN8A, SRGAP1, GIT2, MBD6, ATN1, CHD4, DNAJC14, RFX4, PCBP2, SCAF11, KDM2B, ATXN2, ZFC3H1, NABP2, COL2A1, NOP2, PRMT8, STK38L, DENND5B, EP400, CIT, TAOK3, RIC8B, MON2, SMARCD1, ETV6, ZNF384, CCD64, LARPA, SLC38A1, AEBP2, KDM5A, SETD8, RASSF8, NCOR2, ATF7, SBNO1, TMEM132D, RPL6, RARG, PAN2, ZDHHC17, ATP2B1, PLEKH45, DCTN2, CPSF6, NELL2, PPP1R12A, SOX5, SLC4A8, KIF5A, PRICKLE1, PTPN6, MDM2, NAV3, ATP2A2, CLIP1, ACVR1B, SFSWAP, RAN, PHCI, CAND1, MAP3K12, AGAP2, ANKS1B, PRPF40B, PPFIA2, HECTD4, BAZ2A, SPATS2, GRIN2B
LEAT_EEBB_I	F	14	15	LEAT	GG		19:0-59128983	19	Gain	59.13	0.20	5		ACTN4, AP2A1, ATP1A3, BRD4, BRSK1, CA11, CACNA1A, CACTIN, CADM4, CALM3, CARM1, CHERP, CLPTM1, DAZAP1, DCAF15, DNMT1, DYRK1B, EGLN2, FZRI, GRIN2D, GSK3A, IRF2BP1, KHSRP, LMTK3, MAP4K1, MAST1, MAU2, NACCI1, NOVA2, NUMBL, PIAS4, PPFIA3, PPP2R1A, PPP5C, PRKACA, PRKCG, PRMT1, PRPF31, PRR12, RFX1,	PPP5C, CD22, MBD3, ANO8, KDM4B, BCL3, REXO1, CDC34, HNRNP1, RELB, SLC17A7, TGTA, FBL, RASIP1, RPL18A, RAB3A, KMT2B, USF2, ERF, GSK3A, SIPA1L3, CADM4, DAZAP1, TSHZ2, C3, VASP, SYMPK, UBA2, TSKS, SUGP1, ABHD8, WDR18, MAST1, PVRL2, SAFB2, MLLT1, ACTN4, NUMBL, TRIM28, ZC3H4, EIF3G, ZNF331, RFX1, DCAF15, CSNK1G2, HPN, GCNE1, UPFI, ELL, MAST3, MARK4, GRIKS, MAP2K2, DPP9, PIAS4, GRIN2D, BRD4, WIZ, NOTCH3, PRKCG, ARID3A, SAE1, ADAMTS10, RPS11, RNF126, NACCI1, CELF5, SHANK1, KIAA0355, RAB8A, CHAF1A, IRF2BP1, RFX2, ZNF296, LTBP4, PRKACA, U2AF2, EEF2, BRSK1, SAMD4B, PRPF31, PPP2R1A, LMN2B, HNRNP1, LENG8, STK11, CARM1, PPFIA3, PIP5K1C, CLPTM1, ARHGEF1, LRRC25, RANBP3, LPHN1, PDE4A, FOSB, AP3D1, DPF1, ZNF536, TMEM259, PTBP1, ATP13A1, PTPRS, XAB2, AP2A1, BABAM1, DNMT1, DDA1, CACNA1A, GATAD2A, SCAF1, LONP1, TTYH1, SIN3B, DNMT2, STRN4, HNRNPUL1, MAU2, FZRI, GLTSCR1, NFIX, MAP2K7, KHSRP, DOT1L, ARHGAP35, CNOT3, ELAVL1, PPP6R1, PRR12, TNPO2, TOMM40, CACTIN, SMARCA4, PRKD2, CAMSAP3, ILF3, PRMT1, EPS15L1, ZNF146, UNCI3A, POU2F2, APC2, EVISL, HOMER3, ATP1A3, CHERP, RPL18, CIC, LRFN3, SAFB, MAP4K1, DKFZP761J1410, DYRK1B, FCHO1, RUVBL2, MYO9B, RPSS, NUP62, SNRNP70, SUPT5H, MYH14, SUGP2, YAVI, NPAS1, FKBP8

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes	
														SHANK1, SIN3B, SLC8A2, SMARCA4, SPTBN4, SUPTSH, TMEM259, TNPO2, TOMM40, U2AF2, UPFI, XAB2		
LEAT_EEBB_I	F	14	15	LEAT	GG		20:0-63025520	20	Gain	63.03	0.19	10		CENPB, TOP1	SALL4, CSTFI, EEF1A2, CSNK2A1, CHMP4B, SOGA1, PLAGL2, TAF4, LAMAS, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSEIL, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS3, SS18L1, TCFL5, GGT7, PLCB1, EPB41L1, ATP9A, PMEPA1, E2F1, CBFA2T2, SYCP2, KCNQ2, C20orf112, TOP1, YTHDF1, MRGBP, PSMA7, PHACTR3, ZNF217, TSHZ2, B4GALT5, KCNBI, STAU1, ARFGF2, PREX1, NCOA3, PCIFI, YWHAB, PTPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPREI, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH, RGS19, RAE1, NFATC2, ADNP, ZNFX1, TM9SF4, SPATA2, ZNF512B, SLC12A5, ZMYND8	
LEAT_EEBB_4	M	1	17	LEAT	GG		10:118766183-123216161	10q25.3-26.13	Loss	4.45	0.22	1			PDZD8, MCMBP, TIAL1, EIF3A, CACUL1, EMX2	
LEAT_EEBB_11	F	8	14	LEAT	GG		1:20142866-249250621	1	Gain	229.11	0.03	1	AKT3		LRRCT, SARS, CHRM3, SORT1, NOTCH2, ZCCHC11, TAF5L, LAMC1, ARHGAP29, SUCO, TAF12, ARID4B, RBBP5, PSMA5, CELSR2, ILDR2, PRCC, SF3B4, SETDB1, POGZ, KCN3, HNRNPU, WNT3A, NMNAT2, ZFYVE9, RAPIGAP, UBE2Q1, ZYG11B, USP24, GMEB1, ZNF281, ZNF496, NCSTN, SPRTN, CCT3, RGL1, SHE, LRFB, USP48, GLUL, PPP1R8, HPIBP3, ZMYM4, KCND3, RORC, INTS3, LPHN2, FMN2, YBX1, ANKRD34A, SRRM1, ZNF687, ARID1A, PRPF3, AHCTF1, KHDRBS1, LIN9, CSF1, LRRCB8, TRIM46, LCK, LRRCCB, PRRC2C, NFASC, USPI, LMX1A, JAK1, LRRCA1, PTP4A2, PTPRU, MEF2D, LEPR, NASP, GRHL3, THRAP3, RNF220, MAN1A2, SFPQ, NEGR1, TRIM33, ARNT, ZBTB18, CAMSAP2, RAB3GAP2, KIRREL, ELF3, PTPRF, EXOC8, CLK2, DENND4B, ARHGFE2, BRINP2, IPO9, WDTG1, HORMAD1, ASTN1, ILF2, AKT3, RYR2, ACTN2, HEATR1, SIPA1L2, EGLN1, TRIM67, CDC42BPA, ENAH, FBXO28, SLC30A10, TGFB2, PROX1, LPGA1, SLC30A1, IRF6, MAPKAPK2, NUCKS1, MDMA4, PIK3C2B, SOX13, SYT2, NAV1, LHX9, CFH, CDC73, PTGS2, TPR, IVNS1ABP, SWT1, RNF2, DHX9, CACNA1E, XPR1, CEP350, RASAL2, RFWD2, TNR, RC3H1, SERPINC1, ZBTB37, ATP1B1, TIPL1, POU2F1, DEDD, ARHGAP30, COPA, DCAF8, ETV3, ARHGFE11, LMNA, UBQLN4, KIAA0907, RUSC1, PYGO2, CRTG2, GATAD2B, SNX27, PI4KB, PSDM4, MCL1, RPRD2, FAM46C, SYCP1, HIPK1, RBM15, AHCYL1, AMIGO1, COL11A1, HIAT1, GCLM, MTF2, RPL5, ZNF644, PKN2, FUBP1, USP33, ZZZ3, ZRANB2, ANKRD13C, SRSF11, SERBP1, SGIP1, DNACJ6, ROR1, NFIA, DAB1, SSBP3, NDC1, IPO13, KDM4A, FOXJ3, HIVEP3, CTPS1, RLF, PABPC4, RRACG, SF3A3, MTF1, GRIK3, STK40, MAP7D1, AGO3, AGO1, AGO4, NCDN, DLGAP3, S100BP, RBBP4, EIF31, TXLNA, KPNAB6, BAI2, YTHDF2, EYA3, STX12, AHDC1, TMEM57, LYPLA2, RPL11, HNRNPR, EPHB2, ECE1, LYST, ASH1L, PIAS3, FAF1, RPS8, KDM1A, KIF26B, MOV10, WDR26, TCEB3, RCOR3, PBX1, SYT14, PUM1, C1orf226, SLC2A1, PTBP2, UBAP2L, ITPKB, WASF2, GON4L, CSDE1, PTPRC, TDRD5, OSBPL9, ATP6V0B, SH3GLB1, SMG7, MEX3A, ATP1A1, CEPT1, ZC3H11A, MACF1, EIF4G3	
LEAT_EEBB_11	F	8	14	LEAT	GG		5:0-180915260	5	Gain	180.92	0.03	11		ANKHD1, CAMK2A, CANX, CSNK1A1, CYFIP2, DD46, ETF1, HDAC3, HNRNPH1, IK, KDM3B, LARPI, NR2F1, PPP2CA, PURA, RBM22, TCERG1, UNCSA, ZMAT2		LCP2, YTHDC2, TRIP13, RBM22, SKIV2L2, PAPP2, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDLIM4, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDE8B, SLC9A3, SOX30, ZFR, CDH6, VCAN, CPEB4, FBXW11, SLC1A3, ARRD3, RBM27, JAKMIP2, VDACA1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH1, HMGR, PCDHAC2, DBN1, MAMLI, KIAA0947, TCERG1, MAPIB, UTP15, RAPGEF6, NPM1, CREBRF, ANKHD1, HSPA9, PTGER4, CTNNA1, HCN1, GPRIN1, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PWWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGCS1, SNX18, NKX2-5, UNCSA, PURA, EFNAS, RGS7B, HOMER1, LARPI, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYS13, SEMA6A, TRIO, DD46, HNRNPH1, RICTOR, ETF1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTRM12, FAM169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCOF1, DD46, ERBB2IP, KCTD16, FBN2, ZNF131, FNIPI, DROSHA, KCN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNF145, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5
LEAT_EEBB_11	F	8	14	LEAT	GG		20:921971-63025520	20	Gain	62.10	0.07	10		CENPB, TOP1	SALL4, CSTFI, EEF1A2, CHMP4B, SOGA1, PLAGL2, TAF4, LAMAS, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSEIL, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS3, SS18L1, TCFL5, GGT7, PLCB1, EPB41L1, ATP9A, PMEPA1, E2F1, CBFA2T2, SYCP2, KCNQ2, C20orf112, TOP1, YTHDF1, MRGBP, PSMA7, PHACTR3, ZNF217, TSHZ2, B4GALT5, KCNBI, STAU1, ARFGF2, PREX1, NCOA3, PCIFI, YWHAB, PTPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPREI, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH, RGS19, RAE1, NFATC2, ADNP, ZNFX1, TM9SF4, SPATA2, ZNF512B, SLC12A5, ZMYND8	
LEAT_EEBB_15	M	15	17	LEAT	GG	HS	9:0-141213431	9	Loss	141.21	0.06	3	TSC1		SETX, GDA, CLTA, TAF1L, TRAF2, OLFM1, LRRCB8, KIAA0368, RALGPS1, DAB2IP, GABBR2, RNF38, ERP44, UBE2R2, BRINP1, MAPKAP1, UHRF2, FAM120A, ZNF462, NOTCH1, SMC2, GNAQ, ZNF618, ZERI, ALDH1A1, WNK2, ZNF106, TSCI, ZMYND19, BRD3, ZNF483, SEC16A, TLN1, RPL7A, ANAPC2, PTCH1, TESK1, ANP32B, ABCA2, COL27A1, BICD2, PRRC2B, RAD23B, PAX5, WDR5, VCP, PHF2, NUP214, TOPORS, ASTN2, NAA35, CACNA1B, GRIN1, RABL6, COL5A1, RALGDS, RAPGEF1, ABL1, NUP188, SET, SPTAN1, DNMI1, ENG, STXBPI, ZBTB34, ZBTB43, SCAI, NR5A1, LHX2, DENND1A, RABGAP1, RC3H2, RAB14, PHF19, MEGF9, PRPF4, UGCG, EPB41L4B, KLF4, SLC44A1, TEX10, NCBP1, CDC14B, SYK, SPIN1, ZCCHC6, NTRK2, HNRNPK, UBQLN1, TLE1, TLE4, RORB, SHB, CNTFR, TEK, MLLT3, RPS6, BNC2, PSIP1, NFIB, PTPRD, JAK2, CDC37L1, RFX3, SMARCA2, CANSAP1, NTNG2, PPR2R4, GAPVD1, LHX6, SMU1, ELAVL2, SVEPI, DAPK1, GOLGA2, STRBP, SEMA4D, RUSC2, EHMT1, RXRA, NR6A1, FBXW2	
LEAT_EEBB_16	M	7	20	LEAT	GG		3:0-56942973	3p26.3-14.3	Loss	56.94	0.04	1	NPRL2, RAF1	ATP2B2, CELSR3, CTNNB1, DHX30, PBRM1, RBM5, TOP2B	SEMA3F, CELSR3, ZBTB47, NKTR, DAZL, SMARCC1, BHLHE40, KATZB, RBM6, DOCK3, DYNCL11, IQSECI, UBPI, FGDS, SLC6A1, CACNA1D, ERC2, SLC4A7, EOMES, ST3B, SNRK, BSN, WDR48, ITPR1, TWRF2, RPL15, LRRN1, NR2C2, RAB15B, IP6K2, RARB, NISCH, RBM5, CTNNB1, ARIH2, GRM7, MAP4, ATP2B2, TRIM71, BRPF1, SRGAP3, PRKCD, SFMBT1, PBRM1, QRICH1, THRB,	

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
															UBE2E2, ANKRD28, SETD5, RAD54L2, SETD2, SCN5A, SATB1, PLCL2, ZNF445, ARPC4, USP19, TOP2B, DHX30, NBEAL2, CNOT10, SLC6A6, BAPI, CLASP2, WNT5A, CACNA2D3, CAMKY, CACNA2D2, FAM208A, DACT1
LEAT_EEBB_16	M	7	20	LEAT	GG		7:0-41948020	7	Undetermined	41.95	0.02	1		RAC1	RALA, HOXA11, CDK13, ITGB8, SP4, AHR, INHBA, IGF2BP3, TTYH3, GNAI2, KBTBD2, USP42, ELMO1, ACTB, RAPGEF5, C7orf26, HNRNPA2B1, EIF3B, HERPUD2, HOXA3, CARD11, SEPT7, TBX20, THSD7A, ELFN1, ETV1, TNRC18, HDAC9
LEAT_EEBB_16	M	7	20	LEAT	GG		22:17725150-51304566	22q	Loss	33.58	0.04	4	DEPDC5	CSNK1E, PATZ1, PLXNB2, SF3A1	RTN4R, SF3A1, MAPK1, MORC2, RPL3, MYH9, EIF3D, RBX1, BRD1, GNAZ, RAC2, CELSR1, SHANK3, SMARCB1, UFD1L, MED15, HIRA, EP300, PATZ1, KCNJ4, BCR, PHF21B, SPECC1L, PRR14L, FBLN1, MAPK8IP2, SULT4A1, PITPNB, NF2, GGA1, DGCR8, ZC3H7B, LARGE, MKL1, APIB1, XRCC6, TCF20, PIM3, SCUBE1, SBF1, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1I, ELFN2, GRAMD4, CBX6, EWSR1, RBFOX2, MICAL3, HIC2, PLXNB2, TNRC6B, ZNRF3
LEAT_EEBB_32	F	20	22	LEAT	GG		5:0-180915260	5	Gain	180.92	0.29	11		ANKHDI, CAMK2A, CANX, CSNK1A1, CYFIP2, DDX46, ETF1, HDAC3, HNRNPH1, IK, KDM3B, LARP1, NR2F1, PPP2CA, PURA, RBM22, TCEG1, UNC5A, ZMAT2	LCP2, YTHDC2, TRIP13, RBM22, SKIV2L2, PAPD7, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDLIM4, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDEBB, SLC9A3, SOX30, ZFR, CDH6, VCAN, CPFB4, FBXW11, SLC1A3, ARDC3, RBM27, JAKMIP2, VDACA1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCTS, NIPBL, CHD1, HMGCR, PCDHAC2, DBN1, MAMLI1, KIAA0947, TCEG1, MAP1B, UTP15, RAPGEF6, NPM1, CREBRF, ANKHD1, HSPA9, PTGER4, CTNNA1, HCN1, GPRIN1, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PWWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGCS1, SNX18, NKX2-5, UNC5A, PURA, EFNA5, RGS7BP, HOMER1, LARP1, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYS13, SEMA6A, TRIO, DDX46, HNRNPH1, RICTOR, ETF1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCOF1, DDX4, ERBB2IP, KCTD16, FBN2, ZNF131, FNIP1, DROSHA, KCNN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNFI45, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5
LEAT_EEBB_32	F	20	22	LEAT	GG		7:0-159138663	7	Gain	159.14	0.29	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PMSA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPECE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHYCL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YWCC2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAJC2, NR1F, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
LEAT_EEBB_32	F	20	22	LEAT	GG		12:0-133851895	12	Gain	133.85	0.29	8	KRAS, PTPN11	ANKRD52, ATP2B1, CHD4, CS, DDX23, GCN1L1, HECTD4, LRPI, NAA25, NAB2, PA2G4, PLXNC1, RARG, SCN8A, SETD1B, SMARCC2, SMARCD1, STAT2, USP5	SENP1, HDAC7, FOXJ2, TNFRSF1A, CBX5, SART3, ASIC1, CSRN2P, CNOT2, USPS, HCFC2, RAB35, LRPI, SLC38A2, MS11, HNF1A, TBX3, GDF11, ESPL1, KCNH3, KCNMB4, PLXNC1, SLC41A2, WBP11, ATF7IP, NAPI1L1, ASUN, CDK17, CCND2, LRP6, CORO1C, LPCAT3, CUX2, LHXS, NAA25, ATP5B, PTGES3, EIF4B, COPZ1, CLSTN3, SMARCC2, ANKRD52, SETD1B, DUSP6, USP15, BTBD11, EPS8, MED13L, NCKAP1L, ITGA5, FRS2, CCT2, TMEM132B, HSP90B1, STAT6, GCN1L1, KMT2B, TUBA1A, DIP2B, PA2G4, LEMD3, DHX37, TBX5, STAT2, WNK1, MLXIP, PITPNM2, ULK1, EEA1, EZF7, SPI, FBXO21, RSR2, XPO1, ARID2, PTPR8, TUBA1B, SARNP, ZCCHC8, FAM60A, NOS1, KSR2, PPP1CC, HNRNPA1, NTN4, DYRK2, RNFI1, R3HDM2, CACNA1C, CS, PTPN11, SPPL3, SCN8A, SRGAP1, GIT2, MBD6, ATN1, CHD4, DNAJC14, RFX4, PCBP2, SCAF1, KDM2B, ATXN2, ZFC3H1, NABP2, COL2A1, NOP2, PRMT8, STK38L, DENND5B, EP400, CIT, TAOK3, RIC8B, MON2, SMARCD1, ETV6, ZNF384, CCDC64, LARP4, SLC38A1, AEBP2, KDM5A, SETD8, RASSF8, NCOB2, ATF7, SBNO1, TMEM132D, RPL6, RARG, PAN2, ZDHHC17, ATP2B1, PLEKHAE5, DCTN2, CPSF6, NELL2, PPP1R12A, SOX5, SLC4A8, KIF5A, PRICKLE1, PTPN6, MDM2, NAV3, ATP2A2, CLIP1, ACVR1B, SFSWAP, RAN, PHCI, CAND1, MAP3K12, AGAP2, ANKS1B, PRPF40B, PPIA2, HECTD4, BAZ2A, SPATS2, GRIN2B
LEAT_EEBB_40	F	14	25	LEAT	GG	HS Type I	19:0-59128983	19	Gain	59.13	0.18	5		ACTN4, AP2A1, ATP1A3, BRD4, BRSK1, CAI1, CACNA1A, CACTIN, CADM4, CALM3, CARM1, CHERP, CLPTM1, DAZAP1, DCAF15, DNMT1, DYRK1B, EGLN2, FZRI, GRIN2D, GSK3A, IRF2BP1, KHSRP, LMTK3, MAP4K1, MAST1, MAU2, NACCI, NOVA2, NUMBL, PIAS4, PPFIA3, PPP2R1A, PPP5C, PRKACA, PRKCG, PRMT1, PRPF31, PRR12, RFX1, SHANK1, SIN3B, SLC8A2, SMARCA4, SPTBN4, SUPTSH, TMEM259, TNPO2, TOMM40, UZAF2, UPFI, XAB2	PPP5C, CD22, MBD3, ANO8, KDM4B, BCL3, REXO1, CDC34, HNRNPL, RELB, SLC17A7, SGTA, FBL, RASIP1, RPL18A, RAB3A, KMT2B, USF2, ERF, GSK3A, SIPA1L3, CADM4, DAZAP1, TSHZ3, C3, VASP, SYMPK, UBA2, TSKS, SUGP1, ABHD8, WDR18, MAST1, PVR2, SAFB2, MLLT1, ACTN4, NUMBL, TRIM28, ZC3H4, EIF3G, ZNF331, RFX1, DCAF15, CSNK1G2, HPN, CCNE1, UPFI, ELL, MAST3, MARK4, GRIKS, MAP2K2, DPP9, PIAS4, GRIN2D, BRD4, WIZ, NOTCH3, PRKCG, ARID3A, SAE1, ADAMTS10, RPS11, RNFI26, NACCI, CELF5, SHANK1, KIAA0355, RAB8A, CHAF1A, IRF2BP1, RFX2, ZNF296, LTBPA, PRKACA, UZAF2, EEF2, BRSK1, SAMD4B, PRPF31, PPP2R1A, LMNB2, HNRNPM, LENG8, STK11, CARM1, PPFIA3, PIPSK1C, CLPTM1, ARHGEP1, LRRC25, RANBP3, LPHN1, PDE4A, FOSB, AP3D1, DPFI, ZNF536, TMEM259, PTBP1, ATP13A1, PTPRS, XAB2, AP2A1, BABAM1, DNMT1, DDA1, CACNA1A, GATAD2A, SCAFI, LONPI, TTYH1, SIN3B, DNMT2, STRN4, HNRNPLUL1, MAU2, FZRI, GLTSCR1, NFIX, MAP2K7, KHSRP, DOT1L, ARHGAP35, CNOT3, ELAVL1, PPP6R1, PRR12, TNPO2, TOMM40, CACTIN, SMARCA4, PRKCD, CAMSAP3, ILF3, PRMT1, EPS15L1, ZNF146, UNCL13A, POU2F2, APC2, EVI5L, HOMER3, ATP1A3, CHERP, RPL18, CIC, LRFN3, SAFB, MAP4K1, DKFZP761J1410, DYRK1B, FCHO1, RUVBL2, MYO9B, RP55, NUP62, SNRNP70, SUPTSH, MYH14, SUGP2, VAV1, NPAS1, FKBP8

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
LEAT_EEBB_40	F	14	25	LEAT	GG	HS Type I	20:0-63025520	20	Gain	63.03	0.19	10		CENPB, TOP1	SALL4, CSTFI, EEF1A2, CSNK2A1, CHMP4B, SOGAI1, PLAGL2, TAF4, LAMA5, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSE1L, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS1, SSI18, TCLS, GGT7, PLCB1, EPB41L1, ATP9A, PMEPAL1, EZF1, CBFAT2, SYCP2, KCNQC2, C20orf112, TOP1, YTHDF1, MRGTP, PSMA7, PHACTR3, ZNF217, TSHZ2, B4GALTS, KCNBI, STAU1, ARFGFE2, PREX1, NCOA3, PCIFI, YWHAB, PTPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPRE1, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH, RGS19, RAE1, NFATC2, ADNP, ZNFX1, TM95F4, SPATA2, ZNF512B, SLC12A5, ZMYND8
LEAT_EEBB_42	F	20	33	LEAT	GG		2:0-243199373	2	Gain	243.20	0.07	3		CAD, FBXO11, HDLBP, MAP4K4, PPP1CB, PPP3R1, RQCD1, SCN2A, SF3B1, SNRNP200, UNC80, VSNL1, XPO1	CYP26B1, INPP4A, TRIB2, TMEM131, MSH2, NRBPI, PCGF1, IGFBP5, PPP1R7, DLX2, PAPOLG, ATAD2B, AFTPH, ACVR2A, RIFI, ILKAP, PER2, KIDINS220, CCT7, USP37, REV1, EPC2, SIX3, PPIG, HECW2, SLC40A1, ACTR3, POLR1B, TFPC2L1, PTPN4, CLASPI, LRP2, POLR1A, EHBP1, ATF2, MCM6, CCNT2, R3HDM1, AGPS, ADAM23, CUL3, ADD2, CAD, RAB10, KIF3C, FOSL2, VPS54, MEIS1, AMMECR1L, CTDSP1, RQCD1, CRIMI, ASAP2, EPHA4, ZFP36L2, RANBP2, SCN3A, TRIP12, FMNL2, DPYSL5, EIF5B, REL, MEMO1, KCNJ3, EN1, INHBB, IWS1, FZD5, ARPC2, CTLL4, SIX2, SCN1A, ANTXR1, AGAPI, COL3A1, RPS7, SEMA4C, PRKCE, MAT2A, PSMD1, KLF7, CFLAR, SP3, SNED1, ADAM17, SPEG, SRSF7, SPAST, ROCK2, RAPH1, GLS, RNFI44A, WDR33, NCL, SNRNP200, DIS3L2, FIGN, SF3B1, NPAS2, BCL11A, CCD8B8, PUM2, NR4A2, ERBB4, PPM1G, HDAC4, MAA4K4, FNI, ZNF512, STK39, AFF3, SPTBN1, GFPT1, SCN2A, ARID5A, SAPI30, GTF3C2, INPP5D, MAP2, NCKAP1, STAT1, DLX1, BMPR2, COL5A2, RND3, ACTR2, DDY1, HSPD1, LRP1B, TBR1, HDLBP, ATG16L1, SPHKAP, XRC5, STAT4, OSBP1, HNRNPA3, BAZ2B, GALNT13, DPP10, CCT4, EFEMP1, SP9, PPP1CB, MOB1A, RAPGEF4, USP34, XPO1, SLC8A1, INO80D, FBXO11, PSME4, ATG4B, NRXN1, NCOA1, MBD5, WDR43, AAK1, SLC39A10, ARHGAP25, TET3, GIGYF2, ZNF638, KDM3A, ATG9A, HNRNP14, MGATS, PSMD14, KCMF1, MAP3K2, AGFG1, CALCRL, SATB2, UBR3, BIRC6, SOS1, TMEM185B, MYT1L, SESTD1, PAX8, CNTNAP5, TLKI, KANSL3, CREB1, KIF5C, ASXL2, UNC80, EIF2B4, GLI2, BZW1, IKZF2, KIF1A, FBXO41, REEP1, ZEB2, HSP61-MOB4
LEAT_EEBB_42	F	20	33	LEAT	GG		5:0-180915260	5	Gain	180.92	0.05	11		ANKHD1, CAMK2A, GANX, CSNK1A1, CYFP2, DDX46, ETF1, HDAC3, HNRNP11, IK, KDM3B, LARPI, NR2F1, PPP2CA, PURA, RBM22, TCEG1, UNCSA, ZMAT2	LCP2, YTHDC2, TRIP13, RBM22, SKIV2L2, PAPD7, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDLIM4, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDE8B, SLC9A3, SOX30, ZFR, CDH6, VCAN, CPEB4, FBXW11, SLC1A3, ARRD3, RBM27, JAKMIP2, VDAC1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH1, HMGR, PCDHAC2, DBN1, MAMLI, KIAA0947, TCEG1, UTP15, RAPGEF6, NPM1, CREBF, ANKHD1, HSPA9, PTGER4, CTNNA1, HCN1, GPRIN1, CTNND2, HSPA4, ZNF60B, PCDHGC4, PAIP1, PWWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGCS1, SNX18, NKX2-5, UNCSA, PURA, EFNA5, RGS7BP, HOMER1, LARPI, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYSL3, SEMA6A, TRIO, DDX46, HNRNP11, RICTOR, ETF1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNP0, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCF3, DDX4, ERBB2IP, KCTD16, FBN2, ZNF131, FNIPI, DROSHA, KCNN2, GNB2L1, EXOC3, CTC432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNFI45, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5
LEAT_EEBB_42	F	20	33	LEAT	GG		7:0-159138663	7	Gain	159.14	0.04	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCN2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHYLY2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, VWC2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MARG2, HNRNP2A2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNACJ2, NRF1, ZNF800, PTPRZ1, SRG2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFP3, CNOT4
LEAT_EEBB_42	F	20	33	LEAT	GG		12:0-133851895	12	Gain	133.85	0.07	8	KRAS, PTPN11	ANKRD52, ATP2B1, CHD4, CS, DDX23, GCN1L1, HECTD4, LRP1, NAA25, NAB2, PAZG4, PLXNC1, RARG, SCN8A, SETD1B, SMARCC2, SMARCD1, STAT2, USP5	SENPI1, HDAC7, FOXJ2, TNFRSF1A, CBX5, SART3, ASIC1, CSRN2P, CNOT2, USPS, HCF2, RAB35, LRP1, SLC38A2, MSII, HNF1A, TBX3, GDF11, ESPL1, KCN3, KCNMB4, PLXNC1, SLC41A2, WBPI1, ATF7IP, NAP1L1, ASUN, CDK17, CCND2, LRP6, CORO1C, LPCAT3, CUX2, LHXS, NAA25, ATP5B, PTGES3, EIF4B, COP21, CLSTN3, SMARCC2, ANKRD52, SETD1B, DUSP6, USP15, BTBD11, EPS8, MED13L, NCKAP1L, ITGAS, FRS2, CCT2, TMEM132B, HSP90B1, STAT6, GCN1L1, KMT2D, TUBA1A, DIP2B, PA2G4, LEMD3, DHX37, TBX5, STAT2, WNK1, MLXIP, PITPNM2, ULK1, EEA1, EZF7, SPI, FBXO21, RSR2, XPOT, ARID2, PTPR8, TUBA1B, SARNP, ZCCHC8, FAM60A, NOS1, KSR2, PPP1CC, HNRNP1A, NTN4, DYRK2, RNF41, R3HDM2, CACNA1C, CS, PTPN11, SPPL3, SCN8A, SRGAP1, GIT2, MBDD6, ATN1, CHD4, DNACJ14, RFX4, PCB2, SCAF11, KDM2B, ATXN2, ZFC3H1, NABP2, COL2A1, NOP2, PRMT8, STK38L, DENND5B, EP400, CIT, TAOK3, RIC8B, MON2, SMARCD1, ETV6, ZNF384, CCDC64, LARP4, SLC38A1, AEBP2, KDM5A, SETD8, RASSF8, NCO2, ATF7, SBNO1, TMEM132D, RPL6, RARG, PAN2, ZDHHC17, ATP2B1, PLEKHA5, DCTN2, CPSF6, NELL2, PPP1R12A, SOX5, SLC4A8, KIF5A, PRICKLE1, PTPN6, MDM2, NAV3, ATP2A2, CLIP1, ACVY1B, SFSWAP, RAN, PHCI, CAND1, MAP3K12, AGAP2, ANKS1B, PRPF40B, PPIA2, HECTD4, BAZ2A, SPATS2, GRIN2B
LEAT_EEBB_42	F	20	33	LEAT	GG		14:24860592-107349540	14q	Gain	82.49	0.06	2		DYNCH11, MTA1, PSMC6, RBM25, UNC79	MAP4K5, PPP1R13B, GZE3, PAPOLA, SOS2, PSMA3, AHS1, EIF5, NFKBIA, TGF3B, BMP4, ZC3H14, UNC79, VRTN, EIF2S1, PSMC1, PSMA6, SNWI, CYP46A1, RBM25, RPS6KAS, YY1, RCOR1, RTN1, ITPK1, AKAP6, ELMASN1, FBXO33, TRIM9, PCNX, RALGAP1, DDHD1, PSENI, PPM1A, YLPM1, TTC7B, MTA1, JAG2, EML1, SEL1L, PPP2R5E, DCAF5, FBLN5, FERMT2, ARHGAP5, ARID4A, PRPF39, NPAS3, CALM1, BCL11B, AT1L1, TCEPR2, DYNCH11, BAZ1A, CDC42BPB, SPTB, CCNK, SAMD4A, INF2, EVL, ACTN1, ZBTB1, DAAM1, HECTD1, EXOC5, CEP170B, PPP2R5C, MDGA2, BEGAIN, PSMC6, PACS2, SCFD1, GPHN, DICER1, HIF1A, NOVA1, GTF2A1, AKT1, SMEK1, NRXN3, SIPA1L1, NAA30, SRP54, TRAF3
LEAT_EEBB_42	F	20	33	LEAT	GG		15:23226254-102531392	15q	Gain	79.31	0.04	3		RTF1, SIN3A	AQR, MGA, CSK, PIAS1, DLL4, SNRPA1, ABHD17C, IREB2, CTDSPL2, THBS1, KIF23, ADAM10, HERC2, AP3B2, SNX1, RAB11A, HCN4, TTBK2, IGF1R, ZNF710, FURIN, IQGAP1, UBR1, SPRED1, COPS2, LEO1, HDGFRP3, ZNF592, CLPX, MAP1A, PDIA3, PYGO1, CSNK1G1, ARNT2, OTUD7A, RPL4, FBXO22, RASGRP1, GABRB3, SEMA6D, FBN1, ZNF609, MORF4A, INF2, NEOD1, DPBB, NPTN, BNCI, TJPI, CASCS, MEF2A, LINGO1, MYO9A, ZNF770, NTRK3, AKAP13, INO80, ARIH1, USP3, SLTM, TP53BP1, RYR3, RTF1,

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
															NR2F2, CHD2, SIN3A, UBE3A, MYO5A, BAHD1, FRMD5, RASGRF1, RFX7, USP8, ACAN, DENND4A, HERC1, ANP32A, MAGEL2, DMXL2, TLE3, RNF111, MEIS2, TLN2, CPEB1, PARP6
LEAT_EEBB_42	F	20	33	LEAT	GG		21:15515843-48129895	21q	CNN-LOH	32.61	0.05	2			HUNK, SIK1, USP25, CCT8, TIAM1, SCAF4, IFNGR2, PKNOX1, U2AF1, TRAPP10, ZBTB21, PAXBP1, BRWD1, GABPA, SON, ETS2, COL6A1, SLC5A3, ITSN1, AGPAT3, DYRK1A, NR1P1, DSCAM, MORC3, ERG, SYNJ1
LEAT_EEBB_42	F	20	33	LEAT	GG		22:17221495-51304566	22q	CNN-LOH	34.08	0.06	5	DEPDC5	CSNK1E, PATZ1, PLXNB2, SF3A1	RTN4R, SF3A1, MAPK1, MORC2, RPL3, MYH9, EIF3D, RBX1, BRD1, GNAZ, RAC2, CELSR1, SHANK3, SMARCB1, UFD1L, MED15, HIRA, EP300, PATZ1, KCNJ4, BCR, PHF21B, SPECC1L, PRR14L, FBLN1, MAPK8IP2, SULT4A1, PITPNB, NF2, GGA1, DGCR8, ZC3H7B, LARGE, MKL1, APIB1, XRCC6, TCF20, PIM3, SCUBE1, SBF1, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1I, ELFN2, GRAMD4, CBX6, EWSR1, RBFOX2, MICAL3, HIC2, PLXNB2, TNRC6B, ZNRF3
LEAT_EEBB_48	M	27	40	LEAT	GG	HS Type I	4:58377516-191154276	4q	Gain	132.78	0.02	1		ABCE1, ANKRD17, PPP3CA, SMARCA5, WDFY3	NFKB1, COPS4, RASGEF1B, RAPGEF2, FNIP2, SEPT11, CNOT6L, CENPE, LEF1, SEC24B, CCNA2, NAF1, RPS3A, GPM6A, FBXW7, GRID2, SMARCA5, WDFY3, HMG82, GRIA2, NAA15, HHIP, ABCE1, DCLK2, PITX2, HNRNP, EDNRA, TRIM2, RAPIGDS1, LINS4, YTHDC1, CLCN3, ANK2, NR3C2, ANKRD17, SMARCA1, G3BP2, ZNF827, ELF2, FAT4, ELOVL6, PPP3CA, AFF1, CPE, KIAA0922, SLC44A, BMPR1B, OTUD4, PLRG1, PDGFC, ANKRD50, CDKN2AIP, MAML3, TENM3, LPHN3, KLHL2, SMAD1
LEAT_EEBB_63	M	13	15	LEAT	GG		12:0-133851895	12	Gain	133.85	0.05	8	KRAS, PTPN11	ANKRD52, ATP2B1, CHD4, CS, DDX23, GCN1L1, HECTD4, LRPI, NAA25, NAB2, PA2G4, PLXNC1, RARG, SCN8A, SETD1B, SMARCC2, SMARCD1, STAT2, USP5	SENP1, HDAC7, FOXJ2, TNFRSF1A, CBX5, SART3, ASIC1, CSRN2P, CNOT2, USP5, HCFC2, RAB35, LRPI, SLC38A2, MS1, HNF1A, TBX3, GDF11, ESPL1, KCNH3, KCNMB4, PLXNC1, SLC41A2, WBP11, ATF7IP, NAP1L1, ASUN, CDK17, CCND2, LRP6, CORO1C, LPCAT3, CUX2, LHX5, NAA25, ATP5B, PTGES3, EIF4B, COP21, CLSTN3, SMARCC2, ANKRD52, SETD1B, USF9, USP15, BTBD11, EPS8, MED13L, NCKAP1L, ITGA5, FR52, CCT2, TMEM132B, HSP90B1, STAT6, GCN1L1, KMT2D, TUBA1A, DIP2B, PA2G4, LEMD3, DHX37, TBX5, STAT2, WNK1, MLXIP, PITPNM2, ULK1, EEA1, EZF7, SPI, FBXO21, RSR2, XPOT, ARID2, PTPRB, TUBA1B, SARNP, ZCCHC8, FAM60A, NOS1, KSR2, PPP1CC, HNRNP, NTN4, DYRK2, RNF41, R3HDM2, CACNA1C, CS, PTPN11, SPPL3, SCN8A, SRGAP1, GIT2, MBD6, ATN1, CHD4, DNAJC14, RFX4, PCB2P, SCAF11, KDM2B, ATXN2, ZFC3H1, NABP2, COL2A1, NOP2, PRMT8, STK38L, DENND5B, EP400, CIT, TAOK3, RIC8B, MON2, SMARCD1, ETV6, ZNF384, CCDC64, LARP4, SLC38A1, AEBP2, KDM5A, SETD8, RASSF8, NCOR2, ATF7, SBNO1, TMEM132D, RPL6, RARG, PAN2, ZDHHC17, ATP2B1, PLEKHA5, DCTN2, CPSF6, NELL2, PPP1R12A, SOX5, SLC4A8, KIF5A, PRICKLE1, PTPN6, MDM2, NAV3, ATP2A2, CLIP1, ACVR1B, SFSWAP, RAN, PHC1, CAND1, MAP3K12, AGAP2, ANKS1B, PRPF40B, PPFIA2, HECTD4, BAZ2A, SPATS2, GRIN2B
LEAT_EEBB_63	M	13	15	LEAT	GG		13:21050575-115169878	13	Loss	94.12	0.05	2		MYCBP2, NBEA	AKAP11, FLT3, EFN2, XPO4, RNF17, DCLK1, IPO5, KPNA3, RB1, RBM26, ZC3H13, USP12, FLT1, DACH1, INTS6, PDS5B, HSPH1, COG3, FBXL3, MYO16, CHAMP1, TFDPI, CUL4A, ARHGFP2, COL4A1, TNFSF13B, FAM155A, TBP2, TM95F2, DOCK9, HS65T3, SLITRK1, SPRY2, KLF12, KBTBD6, FOXO1, FRY, SLC7A1, PAN3, NUPL1, FGF9, LATS2, LRCH1, NBEA, MTU52, TSC22D1, FNDC3A, MYCBP2
LEAT_EEBB_63	M	13	15	LEAT	GG		18:0-78077248	18	Gain	78.08	0.05	1		MAPRE2, SMAD7, TCF4	ZNF236, WDR7, DSG1, ZNF24, NOLA, THOC1, USP14, ANKRD12, PHLPP1, CDH2, ASXL3, ESCO1, C18orf8, RNF165, ZCCHC2, SETBP1, ATP5A1, TRAPP8, ZNF407, PTPN2, DLGAP1, SMCHD1, TSHZ1, GNAL, ZNF532, SMAD4, MALTI, ZNF521, CTIF, SOCS6, KIAA1468, TCF4, ROCK1, NEDD4L, PPP4R1, SMAD2, CXCC1, CELF4, DCC, ZNF516, PTPRM, P1AS2, MBD1
LEAT_EEBB_63	M	13	15	LEAT	GG		19:6547141-59128983	19	Gain	52.58	0.05	5		ACTN4, AP2A1, ATP1A3, BRD4, BRSK1, CA11, CACNA1A, CADM4, CALM3, CARM1, CHERP, CLPTM1, DCAF15, DNMT1, DYRK1B, EGLN2, GRIN2D, GSK3A, IRF2BP1, LMTK3, MAP4K1, MAST1, MAU2, NACCI, NOVA2, NUMBL, PPFIA3, PPP2R1A, PPP5C, PRKACA, PRKCG, PRMT1, PRPF31, PRR12, RFX1, SHANK1, SIN3B, SLCBA2, SMARCA4, SPTBN4, SUPTSH, TNPO2, TOMM40, U2AF2, UPFI, XAB2	PPP5C, CD22, ANO8, BCL3, HNRNPL, RELB, SLC17A7, FBL, RASIP1, RPL18A, RAB3A, KMT2B, USF2, ERF, GSK3A, SIPA1L3, CADM4, TSHZ3, C3, VASP, SYMPK, UBA2, TSRS, SUGP1, ABHD8, MAST1, PVL2, ACTN4, NUMBL, TRIM28, ZC3H4, EIF3G, ZNF331, RFX1, DCAF15, HPN, CCNE1, UPFI, ELL, MAST3, MARK4, GRIKS, GRIN2D, BRD4, WIZ, NOTCH3, PRKCG, SAE1, ADAMTS10, RPS11, NACCI, SHANK1, KIAA0355, RAB8A, IRF2BP1, ZNF296, LTPB4, PRKACA, U2AF2, BRSK1, SAMD4B, PRPF31, PXP2R1A, HNRNPM, LENG8, CARM1, PPFIA3, CLPTM1, ARHGFP1, LRRC25, LPHN1, PDE4A, FOSB, DPFI, ZNF536, ATP13A1, XAB2, AP2A1, BABAM1, DNMT1, DDA1, CACNA1A, GATAD2A, SCAF1, TTYH1, SIN3B, DNMT2, STRN4, HNRNPM, MAU2, GLTSCR1, NFIX, MAP2K7, ARHGAP35, CNOT3, ELAVL1, PPP6R1, PRR12, TNPO2, TOMM40, PRKD2, CSMAP3, ILF3, PRMT1, EP51SL1, ZNF146, UNCI3A, POU2F2, EVISL, HOMER3, ATP1A3, CHERP, RPL18, CIC, LRFN3, MAP4K1, DKFZP71J1410, DYRK1B, FCHO1, RUVBL2, MYO9B, RPS5, NUP62, SNRNP70, SUPT5H, MYH14, SUGP2, VAV1, NPAS1, FKBP8
LEAT_EEBB_63	M	13	15	LEAT	GG		20:0-63025520	20	Gain	63.03	0.05	10		CENPB, TOP1	SALL4, CSTF1, EEF1A2, CSNK2A1, CHMP4B, SOGA1, PLAGL2, TAF4, LAMA5, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSE1L, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS3, SS18L1, TCFL5, GGT7, PLCB1, EPB41L1, ATP9A, PMPA1, EZF1, CBFA2T2, SYCP2, KCNQ2, C20orf112, TOP1, YTHDF1, MRGBP, PSMA7, PHACTR3, ZNF217, TSHZ2, B4GALT5, KCNB1, STAU1, ARHGFP2, PREX1, NCOA3, PCIF1, YWHAB, PTPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPRE1, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH, RGS19, RAE1, NFATC2, ADNP, ZNFX1, TM95F4, SPATA2, ZNF512B, SLC12A5, ZMYND8
LEAT_EEBB_70	F	18	22	LEAT	GG		5:0-180915260	5	Gain	180.92	0.05	11		ANKHD1, CAMK2A, CANX, CSNK1A1, CYIF2, DDX46, ETF1, HDAC3, HNRNPH1, IK,	LCP2, YTHDC2, TRIPI3, RBM22, SKIV2L2, PAPD7, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDLIM4, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDE8B, SLC9A3, SOX30, ZFR, CDH6, VCAN, CPEB4, FBXW11, SLC1A3, ARDC3, RBM27, JAKMIP2, VDACC1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH11, HMGR, PCDHAC2, DBN1, MAML1, KIAA0947, TCEG1, MAP1B, UTP15,

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes	
															KDM3B, LARP1, NR2F1, PPP2CA, PURA, RBM22, TCEG1, UNCSA, ZMAT2	RAPGEF6, NPM1, CREBRF, ANKHDI1, HSPA9, PTGER4, CTNNA1, HCN1, GPRIN1, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PWWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGC51, SNX18, NKC2-5, UNCSA, PURA, EFNA5, RGS7BP, HOMER1, LARP1, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYSL3, SEMA6A, TRIO, DDX46, HNRNP11, RICTOR, ETF1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCOF1, DDX4, ERBB2IP, KCTD16, FBN2, ZNF131, FNIP1, DROSHA, KCNN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNFI45, SLIT3, PIK3R1, CYFIP2, ANKHDI1-EIF4EBP3, SCAMP1, FBXL17, SMAD5
LEAT_EEBB_70	F	18	22	LEAT	GG		7:0-159138663	7	Gain	159.14	0.05	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSM2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPC, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, VWC2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNP2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNACJ2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXF2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFP3, CNOT4	
LEAT_EEBB_70	F	18	22	LEAT	GG		11:0-135006516	11	Gain	135.01	0.11	5		ADRBK1, B3GNT1, CKAP5, CNIH2, DDB1, DPF2, GANAB, GNG3, GRAMD1B, KDM2A, KMT2A, LTBP3, MARK2, MEN1, MUC5B, NXF1, PCNXL3, PLCB3, PPP2R5B, PRPF19, PSMC3, RPS6KA4, SART1, SSRP1, SYVN1	TTC17, PPP2R5B, SPI1, PRPF19, MAPK8IP1, COPB1, PPFIA1, RRAS2, DAGLA, PRKRIR, DCUN1D5, EED, ARHGEF17, POLD3, FNBP4, OSBP, DDX6, ARCN1, NRXN2, FBXO3, GTF2H1, KCNC1, FAM160A2, LRRC4C, SERPING1, SSRP1, TENM4, ZC3H12C, HMBS, MYRF, FADS2, CWC15, VPS26B, YAP1, ZDHHC5, SIK3, C11orf84, LRPS, FAT3, PCF11, PKNOX2, PSMC3, APBB1, DCHS1, PATL1, RRM1, DDB1, HNRNPUL2, LTBP3, SUV420H1, SIK2, STIP1, CHRMI1, RSF1, ADRBK1, RBM14, ARHGAP32, RAB6A, NPAS4, CNIH2, SART1, CLCF1, PPP1CA, AMBRA1, ZFP91, FXJ1, PACS1, EHD1, DSCAM1A1, SF3B2, CSTF3, NUP98, KCNA4, PNM2, EEPF6, RPS6KA4, PDE2A, BCL9L, ZBTB16, SPTY2D1, C2CD2L, MEN1, USP47, CPSF7, CAPRIN1, GANAB, FARI1, ANO1, PCNXL3, UVRRG, FAM168A, MPPED2, CTR9, GAB2, DLG2, SYVN1, ATG2A, SVI1, AHNAK, IPO7, BRSK2, ARNTL, CUL5, PICALM, NUMA1, PPP6R3, INCENP, NAV2, SOX6, ARHGEF12, CTNND1, QSER1, MARK2, HYOU1, RDX, RELA, RBM4, RBM14-RBM4, KLC2, PHF21A, GRM5, PSM1, PAX6, ARRB1, TBCEL, PRDM11, PSM1D3, CHRMI4, AP2A2, WEE1, MAMML2, TRIM3, KIRREL3, ZBTB44, TRAF6, FLI1, DPF2, ATG13, KDM2A, C11orf30, CREB3L1, CKAP5, MUC5B, GRAMD1B, AP15, FZD4, RNF214, CELF1, NXF1, EIF3F, IGSF9B, STS, KMT2A, HSPA8, OTUB1, PLCB3, SYT7	
LEAT_EEBB_70	F	18	22	LEAT	GG		13:19307875-115169878	13q	Gain	95.86	0.11	2		MYCBP2, NBEA	AKAP11, FLT3, EFN2, XPO4, RNFI7, DCLK1, IPO5, KPN3A1, RB1, RBM26, ZC3H13, USP12, FLT1, DACHI, INTS6, PDS5B, HSPH1, PSPCI, COG3, FBXL3, MYO16, CHAMPI1, TFDPI, CUL4A, ARHGEF7, COL4A1, TNFSF13B, FAM155A, TFP2, TM9SF2, DOCK9, HS6ST3, SLITRK1, SPRY2, KLF12, KBTBD6, FOXO1, FRY, SLCTA1, PAN3, NUPL1, FGF9, LATS2, ZMYM2, LRCH1, NBEA, MTUS2, TSC22D1, FNDC3A, MYCBP2	
LEAT_EEBB_74	M	8	12	LEAT	GG		4:0-191154276	4	Gain	191.15	0.09	5		ABCE1, ANKRD17, CTBP1, DHX15, POLR2B, PPP3CA, SMARCA5, WDFY3	BOD1L1, PHOX2B, NFKB1, PDGFRA, UBE2K, KDR, PPAT, COPS4, RASGEF1B, RAPGEF2, FNIP2, ADD1, PPARG1A, SEPT11, CNOT6L, CENPE, LEF1, SEC24B, CCNA2, NAF1, RPS3A, GPM6A, FBXW7, GRID2, SMARCA5, UOHL1, KIT, CTBP1, GABRB1, WDFY3, HMGB2, GRIA2, NAA15, HHIP, ABCE1, DCLK2, PDS5A, LDB2, PITX2, KIAA0232, REST, CLOCK, LIMCH1, HNRNP, EDNR4, FAM193A, CRMP1, DHX15, TRIM2, RAPIGDS1, LINS4, FBXL5, RBPJ, YTHDC1, CLCN3, HTT, ANK2, NR3C2, FRYL, ANKRD17, SMARCA1, G3BP2, PCGF3, ZNF827, POLR2B, ATP8A1, RBM47, RFC1, WHSC1, ELF2, FAT4, ELOVL6, PPP3CA, AFF1, CPE, JAKMIP1, KIAA0922, SLC44A4, BMRP1B, RPL9, RELL1, OTUD4, PLRG1, WDR1, BEND4, PDGFC, ANKRD50, SLIT2, CDKN2AIP, MAML3, GABRA2, TENM3, LPHN3, KLHL2, SMAD1	
LEAT_EEBB_74	M	8	12	LEAT	GG		6:0-171115067	6	Gain	171.12	0.06	8	MYB	GTPBP2, JARID2, KLHDC3, PPP2R5D, TMEM63B, TRERF1, XPO5	TFAP2D, RANBP9, TRAM2, FBXO5, TNFAIP3, DST, ATXN1, KIAA1244, CUL9, BACH2, REPS1, FAM65B, KIF13A, TMEM63B, TTBK1, GCM1, POU5F1, PHF3, NUP153, PSMB1, XPO5, SRF, SCUBE3, PHIP, C6orf136, PPARD, GLTSCR1L, EEF1A1, DEF6, TCPI1, STXBP5, COL12A1, ZBTB2, RPS10, KLHDC3, TUBB, EPB41L2, PRPF4B, JARID2, KCNQ5, ARID1B, E2F3, DOPEY1, FYN, IGF2R, BRPF3, WTAP, REV3L, MAP3K5, ANKS1A, SLC35F1, PLAGL1, ZNF318, DLL1, THBS2, TULP4, SCAF8, TAB2, HIVEP2, PTPRK, HSF2, NUS1, AMD1, CDK19, CDC40, NR2E1, ATG5, PRDM1, SIM1, PNISR, EPHA7, MAP3K7, MDN1, ZNF292, SYNCRIP, TBX18, SMAP1, BA13, LRRC1, RUNX2, CDC5L, HSP90AB1, UBR2, TRERF1, CCND3, USP49, FOXPA, CMTR1, RNFB, SRSF3, SPDEF, PHF1, RXRB, COL11A2, PBX2, ZBTB12, BAG6, PRRC2A, PPP1R10, GNL1, TRIM39, GABBR1, TRIM27, C6orf62, HIVEP1, TFAP2A, DSP, RREB1, GMD3, MLLT4, MAP3K4, WASFI, TFAP2B, PFDN6, BRD2, AGPAT1, DDX39B, CDYL, DAAM2, SYNGAP1, FAM135A, GRIK2, BEND5, MDGA1, SNAP91, RPS18, ESR1, SENP6, PTK7, PPP2R5D, HDAC2, CCNC, RIMS1, L3MBTL3, GRM4, PACSINI, PDE10A, LATS1	
LEAT_EEBB_74	M	8	12	LEAT	GG		7:0-159138663	7	Gain	159.14	0.06	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSM2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPC, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, VWC2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNP2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNACJ2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXF2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFP3, CNOT4	
LEAT_EEBB_74	M	8	12	LEAT	GG		9:0-141213431	9	Gain	141.21	0.08	2	TSC1	ABCA2, DNMI1, GABBR2, GRIN1, NOTCH1, PHF19, SCAI, SET, SMU1,	SETX, GDA, CLTA, TAF1L, TRAF2, OLFM1, LRRC8A, KIAA0368, RALGPS1, DAB2IP, GABBR2, RNF38, ERP44, UBE2R2, BRINP1, MAPKAP1, UHRF2, FAM120A, ZNF462, NOTCH1, SMC2, GNAQ, ZNF618, ZERI, ALDH1A1, WNK2, NOL6, TSCI, ZMYND19, BRD3, ZNF483, SEC16A, TLN1, RPL7A, ANAPC2, PTC1, TESK1, ANP32B, ABCA2, COL27A1, BICD2, PRR2B, RAD23B, PAX3,	

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
														SPTAN1, STXBPI, TLN1, VCP, WDR5	WDR5, VCP, PHF2, NUP214, TOPORS, ASTN2, NAA35, CACNA1B, GRIN1, RABL6, COL5A1, RALGDS, RAPGEF1, ABL1, NUP188, SET, SPTAN1, DNMI1, ENG, STXBPI, ZBTB34, ZBTB43, SCAI, NR5A1, LHX2, DENND1A, RABGAP1, RC3H2, RAB14, PHF19, MEGF9, PRPF4, UGCG, EPB41L4B, KLF4, SLC44A1, TEX10, NCBP1, CDC14B, SYK, SPIN1, ZCCHC6, NTRK2, HNRNP, UBQNL1, TLE1, TLE4, RORB, SHB, CNTFR, TEK, MLLT3, RPS6, BNC2, PSIP1, NFIB, PTPRD, JAK2, CDC37L1, RFX3, SMARCA2, CAMSAP1, NTNG2, PPP2R4, GAPVD1, LHX6, SMU1, ELAVL2, SVEPI, DAPK1, GOLGA2, STRBP, SEMA4D, RUSC2, EHMT1, RXRA, NR6A1, FBXW2
LEAT_EEBB_74	M	8	12	LEAT	GG		12:0-133851895	12	Gain	133.85	0.06	8	KRAS, PTPN11	ANKRD52, ATP2B1, CHD4, CS, DDX23, GCN1L1, HECTD4, LRP1, NAA25, NAB2, PA2G4, PLXNC1, RARG, SCN8A, SETD1B, SMARCC2, SMARCD1, STAT2, USP5	SENP1, HDAC7, FOXJ2, TNFRSF1A, CBX5, SART3, ASIC1, CSRN2P, CNOT2, USPS, HCFC2, RAB35, LRP1, SLC38A2, MS11, HNF1A, TBX3, GDF11, ESPL1, KCN3, KCNMB4, PLXNC1, SLC41A2, WBP11, ATF7IP, NAP1L1, ASUN, CDK17, CCND2, LRP6, CORO1C, LPCAT3, CUX2, LHX5, NAA25, ATP5B, PTGES3, EIF4B, COP21, CLSTN3, SMARCC2, ANKRD52, SETD1B, DUSP6, USP15, BTBD11, EPS8, MED13L, NCKAP1L, ITGA5, FRS2, CCT2, TMEM132B, HSP90B1, STAT6, GCN1L1, KMT2D, TUBA1B, DIP2B, PA2G4, LEMD3, DHX37, TBX5, STAT2, WNK1, MLXIP, PTPN22, ULK1, EEA1, EZF7, SPI, FBXO21, RSR2, XPO2, ARID2, PTPR8, TUBA1B, SARNP, ZCCHC8, FAM60A, NOS1, KSR2, PPP1CC, HNRNP, NTN4, DYRK2, RNF41, R3HDM2, CACNA1C, CS, PTPN11, SPPL3, SCN8A, SRGAP1, GIT2, MBD6, ATN1, CHD4, DNAC14, RFX4, PCB2, SCAF11, KDM2B, ATXN2, ZFC3H1, NABP2, COL2A1, NOP2, PRMT8, STK38L, DENND5B, EP400, CIT, TAOK3, RIC8B, MON2, SMARCD1, ETV6, ZNF384, CCDC64, LARP4, SLC38A1, AEBP2, KDM5A, SETD8, RASSF8, NCO2, ATF7, SBN01, TMEM132D, RPL6, RARG, PAN2, ZDHHC17, ATP2B1, PLEKHA5, DCTN2, CPSF6, NELL2, PPP1R12A, SOX5, SLC4A8, KIF5A, PRICKLE1, PTPN6, MDM2, NAV3, ATP2A2, CLIP1, ACV1B, SFSWAP, RAN, PHC1, CAND1, MAP3K12, AGAP2, ANKS1B, PRPF40B, PPIA2, HECTD4, BAZ2A, SPATS2, GRIN2B
LEAT_EEBB_74	M	8	12	LEAT	GG		16:0-90354753	16	Gain	90.35	0.08	3	NPR13, TSC2	CNOT1, CTCF, EDC4, FBXL19, MAPK8IP3, MAZ, NUDT21, SF3B3, STX1B, UBE21, USP7	CACNG3, TFAP4, GLG1, STX1B, C16orf70, CORO1A, NUTF2, USP10, TSC2, CAPN15, TOX3, MAPK8IP3, SALL1, FUS, VPS4A, DYNC1L2, XYLT1, RBL2, PKD1, RAB1FIP3, CREBBP, FOXF1, GNAO1, CSNK2A2, SRCAP, SETD1A, ZNF629, CTCF, NKD1, ZFH3, CDH11, ZCCHC14, IRF8, JPH3, ATP6V0D1, ADCY9, VPS35, ZNF319, PLK1, NUDT21, ZC3H18, ANKRD11, SF3B3, PRKCB, XPO6, TAOK2, RBFOX1, TUBB3, DNAAJ2, CNOT1, RANBP10, MKL2, RBBP6, GLYR1, SHZB1, RNF40, C16orf72, IL2IR, MTS5L, PDPK1, CASKIN1, USP7, NFATC3, UBE21, FBR3, GTF3C1, PLCG2, FBXL19, RPL13, BANP, AP1G1, BRD7, ATXN2L, TRC6A, MYH11, KIAA0430, ZC3H7A, GRIN2A, UBN1, FBXL16, TBC1D10B, CBFB, BCAR1, FAM65A, CYLD, NFAT5, GSPT1, PAPD5, HERPUD1, SMG1, CMIP, RSPRY1, ZNF423, RNPS1, CHD9, CDH8, TERF2
LEAT_EEBB_74	M	8	12	LEAT	GG		20:0-63025520	20	Gain	63.03	0.06	10		CENPB, TOP1	SALL4, CSTF1, EEF1A2, CSNK2A1, CHMP4B, SOGA1, PLAGL2, TAF4, LAMAS, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSE1L, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS3, SS18L1, TCFL5, GGT7, PLCB1, EPB41L1, ATP9A, PMEPA1, EZF1, CBFA2T2, SYCP2, KCNQ2, C20orf112, TOPI, YTHDF1, MRGBP, PSMTA, PHACTR3, ZNF217, TSHZ2, B4GALT5, KCN81, STAU1, ARFGF2, PREX1, NCOA3, PCIF1, YWHAB, PTPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPRE1, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH, RGS19, RAE1, NFATC2, ADNP, ZNFEX1, TM95F4, SPATA2, ZNF512B, SLC12A5, ZMYND8
LEAT_EEBB_80	M	5.7	6	LEAT	GG		1:0-120110175	1p	Loss	120.11	0.08	1	MTOR	AGO1, AGO3, AHCYL1, ARID1A, ATP1A1, CAMTA1, IPO13, KDM1A, KDM4A, MACF1, MTOR, NCDN, RBBP4, USP24, ZMYM4	LRRC7, SARS, MFN2, PRDM2, TARDBP, SORT1, ZCCHC11, ARHGAP29, CHD5, KIF1B, TAF12, PRDM16, PGD, PSMA5, CELSR2, ZFYVE9, RAPIGAP, ZYG11B, USP24, GMEB1, CAMTA1, LRP8, USP48, PPP1R8, HPIBP3, ZMYM4, KCN23, LPHN2, YBX1, SRRM1, ARID1A, KHDRBS1, CSF1, MRTO4, LRRC8B, LCK, LRRC8D, RERE, USPI, TMEM201, JAK1, UBE4B, LRRC41, PTP4A2, PTPR, LEPR, NASP, GRHL3, THRAP3, RNF220, MAN1A2, SFPQ, NEGR1, VPS13D, TRIM33, PTPRF, MTOR, WDTC1, FAM46C, SYCP1, HIPK1, RBM15, AHCYL1, AMIGO1, COL11A1, HIAT1, GCLM, MTF2, RPL5, ZNF644, PKN2, FUBP1, USP33, ZSRAN2, ANKRD13C, SRSF11, SERBP1, SGIP1, DNAC16, ROR1, NFIA, DABI, SSBP3, NDC1, IPO13, KDM4A, FOXJ3, HIVEP3, CTSP1, RLF, PABPC4, RRAGC, SF3A3, MTF1, GRIK3, STK40, MAP7D1, AGO3, AGO1, AGO4, NCDN, DLGAP3, S100BP, RBBP4, EIF31, TXLNA, KPNA6, BAI2, YTHDF2, EYA3, STX12, AHD1, TMEM57, LYPLA2, RPL11, HNRNP, EPHB2, ECE1, UBR4, RCC2, FBXO42, ZBTB17, SPEN, CASZ1, CLSTN1, PIK3CD, DNAC11, PHF13, AJAPI, TP73, PANK4, SKI, GABRD, GNB1, FAF1, RPS8, KDM1A, MOV10, TCEB3, PUM1, SLC2A1, PTBP2, WASF2, CSDE1, OSBPL9, ATP6V0B, DD12, SH3GLB1, ATP1A1, CEPT1, MACF1, EIF4G3
LEAT_EEBB_80	M	5.7	6	LEAT	GG		5:0-180915260	5	Gain	180.92	0.03	11		ANKHD1, CAMK2A, CANX, CSNK1A1, CYFIP2, DDX46, ETF1, HDAC3, HNRNP, IK, KDM3B, LARPI, NR2F1, PPP2CA, PURA, RBM22, TCERG1, UNCSA, ZMAT2	LCP2, YTHDC2, TRIP13, RBM22, SKIV2L2, PAPP2, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDILM4, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDE8B, SLC9A3, SOX30, ZFR, CDH6, VCAN, CPB4, FBXW11, SLC1A3, ARRD3, RBM27, JAKMIP2, VDAC1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH1, HMGR, PCDHAC2, DBN1, MAMLI1, KIAA0947, TCERG1, MAP1B, UTP15, RAPGEF6, NPML1, CREBRF, ANKHD1, HSPA9, PTGER4, CTNNA1, HCN1, GPRIN1, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PWWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGCS1, SNX18, NKX2-5, UNCSA, PURA, EFNA5, RGS7BP, HOMER1, LARPI, PPP2R2B, TNPO1, ADCY2, PDE4D, DYS13, SEMA6A, TRIO, DDX46, HNRNP, RICTOR, ETT1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF24, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCOF1, DDX4, ERBB2IP, KCTD16, FBN2, ZNF131, FNIP1, DROSHA, KCNN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNF145, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5
LEAT_EEBB_80	M	5.7	6	LEAT	GG		6:0-171115067	6	Gain	171.12	0.03	8	MYB	GTPBP2, JARID2, KLHDC3, PPP2R5D, TMEM63B, TRERF1, XPOS	TFAP2D, RANBP9, TRAM2, FBXOS, TNFAIP3, DST, ATXN1, KIAA1244, CUL9, BACH2, REPS1, FAM65B, KIF13A, TMEM63B, TTBK1, GCM1, POU5F1, PHF3, NUP153, PSMB1, XPOS, SRF, SCUBE3, PHIP, C6orf136, PPARD, GLTSCR1L, EEF1A1, DEF6, TCF1, STXBPI5, COL12A1, ZBTB2, RPS10, KLHDC3, TUBB, EPB41L2, PRPF4B, JARID2, KCNQ5, ARID1B, EZF3, DOPEY1, FYN, IGF2R, BRPF3, WTAP, RYR3L, MAP3K5, ANKSI1A, SLC35F1, PLAGL1, ZNF318, DLL1, THBS2, TULP4, SCAF8, TAB2, HIVEP2, PTPRK, HSF2, NUS1, AMD1, CDK19, CDC40, NR2E1, ATG5, PRDM1, SIM1, PNISR, EPHA7, MAP3K7, MDN1, ZNF292, SYNCRIP, TBX18, SMAP1, BA13, LRRC1, RUNX2, CDC5L, HSP90A1, UBR2, TRERF1, CCND3, USP49, FOXF4, CMTR1, RNF8, SRSF3, SPDEF, PHF1, RXRB, COL11A2, PBX2, ZBTB12, BAG6, PRR2A, PPP1R10, GNL1, TRIM39, GABBR1, TRIM27, C6orf62, HIVEP1, TFAP2A, DSP, RREB1, ZMDS1, ZNF147, MAP3K4, WASF1, TFAP2B, PFDN6, BRD2, AGPAT1, DDX39B, CDYL, DAAM2, SYNGAP1, FAM135A, GRIK2, BEND3, MDGA1, SNAP91, RPS18, ESR1, SENP6, PTK7, PPP2R5D, HDAC2, CCNC, RIMS1, L3MBTL3, GRM4, PACSINI, PDE10A, LATS1

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
LEAT_EEBB_80	M	5.7	6	LEAT	GG		7:0-159138663	7	Gain	159.14	0.03	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSM2A, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCN2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COLIA2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHYCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YW2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAAJC2, NRFI, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
LEAT_EEBB_80	M	5.7	6	LEAT	GG		19:0-23207354	19p	Gain	23.21	0.12	1		BRD4, CACNA1A, CACTIN, CARM1, CHERP, DAZAP1, DCAF15, DNMT1, FZR1, KHSRP, MAST1, MAU2, NACCI, PIAS4, PRKACA, RFX1, SIN3B, SMARCA4, TMEM259, TNPO2, UPF1, XAB2	MBD3, ANO8, KDM4B, REXO1, CDC34, SGTA, RPL18A, RAB3A, DAZAP1, C3, SUGP1, ABHD8, WDR18, MAST1, SAFB2, MLLT1, EIF3G, RFX1, DCAF15, CSNK1G2, UPF1, ELL, MAST3, MAP2K2, DPP9, PIAS4, BRD4, WIZ, NOTCH3, ARID3A, ADAMTS10, RNFI26, NACCI, CELF5, RAB8A, CHAF1A, RFX2, PRKACA, EEF2, LMNB2, HNRNPM, STK11, CARM1, PIP5K1C, LRRC25, RANBP3, LPHN1, PDE4A, AP3D1, TMEM259, PTBP1, ATP13A1, PTPRS, XAB2, BABAM1, DNMT1, DDA1, CACNA1A, GATAD2A, LONP1, SIN3B, DNMT2, MAU2, FZR1, NFIX, MAP2K7, KHSRP, DOT1L, ELAVL1, TNPO2, CACTIN, SMARCA4, CAMSAP3, ILF3, EPS15L1, UNCL13A, APC2, EVISL, HOMER3, CHERP, SAFB, DKFZP761J1410, FCHO1, MYO9B, SUGP2, VAV1, FKBP8
LEAT_EEBB_80	M	5.7	6	LEAT	GG	22:17897544-51304566	22q	Loss	33.41	0.06	4	DEPDC5		CSNK1E, PATZ1, PLXNB2, SF3A1	RTN4R, SF3A1, MAPK1, MORC2, RPL3, MYH9, EIF3D, RBX1, BRD1, GNAZ, RAC2, CELSR1, SHANK3, SMARCB1, UFD1L, MED15, HIRA, EP300, PATZ1, KCNJ4, BCR, PHF21B, SPECC1L, PRR14L, FBLN1, MAPK8IP2, SULT4A1, PITPNB, NF2, GGA1, DGCR8, ZC3H7B, LARGE, MKL1, APIB1, XRCC6, TCF20, PIM3, SCUBE1, SBFI, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1A, ELFN2, GRAMD4, CBX6, EWSR1, RBFOX2, MICAL3, HIC2, PLXNB2, TNRC6B, ZNRF3
LEAT_EEBB_85	M	NA	32	LEAT	GG		4:0-191154276	4	Gain	191.15	0.04	5		ABCE1, ANKRD17, CTBP1, DHX15, POLR2B, PPP3CA, SMARCA5, WDFY3	BOD1L1, PHOX2B, NFKB1, PDGFRA, UBE2K, KDR, PPAT, COPS4, RASGEF1B, RAPGEF2, FNIP2, ADD1, PPARGCIA, SEPT11, CNOT6L, CENPE, LEF1, SEC24B, CCNA2, NAF1, RPS3A, GPM6A, FBXW7, GRID2, SMARCA5, UCHL1, KIT, CTBP1, GABRB1, WDFY3, HMGCB2, GRIA2, NAA15, HHIP, ABCE1, DCLK2, PDSSA, LDB2, PITX2, KIAA0232, REST, CLOCK, LIMCH1, HNRNPD, EDNRA, FAM193A, CRMP1, DHX15, TRIM2, RAPIGDS1, LINS4, FBXL5, RBPJ, YTHDC1, CLCN3, HTT, ANK2, NR3C2, FRYL, ANKRD17, SMARCA1, G3BP2, PCGF3, ZNF827, POLR2B, ATP8A1, RBM47, RFC1, WHSC1, ELF2, FAT4, ELOVL6, PPP3CA, AFF1, CPE, JAKMIP1, KIAA0922, SLC44A4, BMPIR1B, RPL9, RELL1, OTUD4, PLRG1, WDR1, BEND4, PDGFC, ANKRD50, SLIT2, CDKN2AIP, MAML3, GABRA2, TENM3, LPHN3, KLHL2, SMAD1
LEAT_EEBB_85	M	NA	32	LEAT	GG		6:0-171115067	6	Gain	171.12	0.04	8	MYB	GTPBP2, JARID2, KLHDC3, PPP2R5D, TMEM63B, TRERFI, XPO5	TFAP2D, RANBP9, TRAM2, FBXO5, TNFAIP3, DST, ATXN1, KIAA1244, CUL9, BACH2, REPS1, FAM65B, KIF13A, TMEM63B, TTBK1, GCM1, POU5F1, PHF3, NUP153, PSMB1, XPO5, SRF, SCUBE3, PHIP, C6orf136, PPARD, GLTSCR1L, EEF1A1, DEF6, TCF1, STXBP5, COL12A1, ZBTB2, RPS10, KLHDC3, TUBB, EPB41L2, PRPF4B, JARID2, KCNQ5, ARID1B, EZF3, DOPEY1, FYN, IGF2R, BRPF3, WTAP, REV3L, MAP3K5, ANKSA1, SLC35F1, PLAGL1, ZNF318, DLL1, THBS2, TULP4, SCAF8, TAB2, HIVEP2, PTPRK, HSF2, NUS1, AMD1, CDK19, CDC40, NR2E1, ATG5, PRDM1, SIM1, PNISR, EPHA7, MAP3K7, MDN1, ZNF292, SYNCRIP, TBX18, SMAP1, BA13, LRRC1, RUNX2, CDC5L, HSP90AB1, UBR2, TRERFI, CCND3, USP49, FOXP4, CMTR1, RNFB, SRSF3, SPDEF, PHF1, RXRB, COL1A2, PBX2, ZBTB12, BAG6, PRRC2A, PPP1R10, GNLI, TRIM39, GABBR1, TRIM27, C6orf62, HIVEP1, TFAP2A, DSP, RREB1, GMD5, MLLT4, MAP3K4, WASFI, TFAP2B, PFDN6, BRD2, AGPAT1, DDX39B, CDYL, DAAM2, SYNGAP1, FAM135A, GRIK2, BEND3, MDGA1, SNAP91, RPS18, ESR1, SENP6, PTK7, PPP2R5D, HDACC2, CCNC, RIMS1, L3MBTL3, GRM4, PACSINI, PDE10A, LATS1
LEAT_EEBB_87	F	14	54	LEAT	GG		5:0-180915260	5	Gain	180.92	0.04	11		ANKHD1, CAMK2A, CANX, CSNK1A1, CYFIP2, DDX46, ETF1, HDAC3, HNRNPH1, IK, KDM3B, LARPI, NR2F1, PPP2CA, PURA, RBM22, TCERG1, UNCSA, ZMAT2	LCP2, YTHDC2, TRIP13, RBM22, SKIV2L2, PAPD7, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDLM4, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDE8B, SLC9A3, SOX30, ZFR, CDFH6, VCAN, CPEB4, FBXW11, SLC1A3, ARRD3, RBM27, JAKMIP2, VDAC1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH1, HMGR, PCDHAC2, DBN1, MAML1, KIAA0947, TCERG1, MAP1B, UTP15, RAPGEF6, NPM1, CREBRF, ANKHD1, HSPA9, PTGER4, CTNNA1, HCN1, GPRIN1, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PWWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGCS1, SNX18, NKX2-5, UNCSA, PURA, EFNA5, RGS7BP, HOMER1, LARPI, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYSL3, SEMA6A, TRIO, DDX46, HNRNPH1, RICTOR, ETF1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCOF1, DDX4, ERBB2IP, KCTD16, FBN2, ZNF131, FNIP1, DROSHA, KCNN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNFI45, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5
LEAT_EEBB_87	F	14	54	LEAT	GG		7:0-159138663	7	Gain	159.14	0.04	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSM2A, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCN2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COLIA2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHYCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YW2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAAJC2, NRFI, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes	
LEAT_EEBB_87	F	14	54	LEAT	GG		12:0-133851895	12	Gain	133.85	0.04	8	KRAS, PTPN11		ANKRD52, ATP2B1, CHD4, CS, DDX23, GCN1L1, HECTD4, LRP1, NAA25, NAB2, PA2G4, PLXNC1, RARG, SCN8A, SETD1B, SMARCC2, SMARCD1, STAT2, USP5	SENPI1, HDAC7, FOXJ2, TNFRSF1A, CBX5, SART3, ASIC1, CSRN2P, CNOT2, USP5, HCFC2, RAB35, LRP1, SLC38A2, MS1F, HNF1A, TBX3, GDF11, ESPL1, KCNH3, KCNMB4, PLXNC1, SLC41A2, WBPI1, ATF7IP, NAP1L1, ASUN, CDK17, CCND2, LRP6, CORO1C, LPCAT3, CUX2, LHXS, NAA25, ATP5B, PTGES3, EIF4B, COP21, CLSTN3, SMARCC2, ANKRD52, SETD1B, DUSP6, USP15, BTBD11, EPS8, MED13L, NCKAP1L, ITGAS, FR52, CCT2, TMEM132B, HSP90B1, STAT6, GCN1L1, KMT2D, TUBA1A, DIP2B, PA2G4, LEMD3, DHX37, TBX5, STAT2, WNK1, MLXIP, PTPN22, ULK1, EEA1, E2F7, SPI1, FBXO21, RSR2, XPOT, ARID2, PTPR8, TUBA1B, SARNP, ZCCHC8, FAM60A, NOS1, KSR2, PPP1CC, HNRNP1A, NTN4, DYRK2, RNF41, R3HDM2, CACNA1C, CS, PTPN11, SPPL3, SCN8A, SRGAP1, GIT2, MBD6, ATN1, CHD4, DNAC14, RFX4, PCBP2, SCAF11, KDM2B, ATXN2, ZFC3H1, NABP2, COL2A1, NOP2, PRMT8, STK38L, DENND5B, EP400, CIT, TAOK3, RIC8B, MON2, SMARCD1, ETV6, ZNF384, CCDC64, LARP4, SLC38A1, AEBP2, KDM5A, SETD8, RASSF8, NCOR2, ATF7, SBNO1, TMEM132D, RPL6, RARG, PAN2, ZDHHC17, ATP2B1, PLEKHA5, DCTN2, CPSF6, NELL2, PPP1R12A, SOX5, SLC4A8, KIF5A, PRICKLE1, PTPN6, MDM2, NAV3, ATP2A2, CLIP1, ACVR1B, SFSWAP, RAN, PHC1, CAND1, MAP3K12, AGAP2, ANKS1B, PRPF40B, PPF1A2, HECTD4, BAZ2A, SPATS2, GRIN2B
LEAT_EEBB_87	F	14	54	LEAT	GG		20:0-63025520	20	Gain	63.03	0.02	10		CENPB, TOP1	SALL4, CSTFI, EEF1A2, CSNK2A1, CHMP4B, SOGA1, PLAGL2, TAF4, LAMAS, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSE1L, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS3, SS18L1, TCFL5, GGT7, PLCB1, EPB41L1, ATP9A, PMEPA1, E2F1, CBFA2T2, SYCP2, KCNQ2, C20orf112, TOP1, YTHDF1, MRGBP, PSMA7, PHACTR3, ZNF217, TSHZ2, B4GALT5, KCNBI, STAU1, ARFGF2, PREX1, NCOA3, PCIF1, YWHAB, PTPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPRE1, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNHP, RGS19, RAE1, NFATC2, ADNP, ZNF51, TM95F4, SPATA2, ZNF512B, SLC12A5, ZMYND8	
LEAT_EEBB_98	M	15	18	LEAT	GG		4:0-191154276	4	Gain	191.15	0.02	5		ABCE1, ANKRD17, CTBP1, DHX15, POLR2B, PPP3CA, SMARCA5, WDFY3	BOD1L1, PHOX2B, NFKB1, PDGFRA, UBE2K, KDR, PPAT, COPS4, RASGEF1B, RAPGEF2, FNI2P, ADD1, PPARGC1A, SEPT11, CNOT6L, CENPE, LEF1, SEC24B, CCNA2, NAF1, RPS3A, GPM6A, FBXW7, GRID2, SMARCA5, UCHL1, KIT, CTBP1, GABRB1, WDFY3, HMGCB2, GRIA2, NAA15, HHP1, ABCE1, DCLK2, PDSSA, LDB2, PITX2, KIAA0232, REST, CLOCK, LIMCH1, HNRNP, EDNR, FAMI193A, CRMP1, DHX15, TRIM2, RAPIGDS1, LINS4, FBXLS, RBPJ, YTHDC1, CLCN3, HTT, ANK2, NR3C2, FRYL, ANKRD17, SMARCD1, G3BP2, PCGF3, ZNF827, POLR2B, ATP8A1, RBM47, RFC1, WHSC1, ELF2, FAT4, ELOVL6, PPP3CA, AFF1, CPE, JAKMIP1, KIAA0922, SLC4A4, BMPR1B, RPL9, RELL1, OTUD4, PLRG1, WDRI1, BEND4, PDGFC, ANKRD50, SLIT2, CDKN2AIP, MAML3, GABRA2, TENM3, LPHN3, KLHL2, SMAD1	
LEAT_EEBB_98	M	15	18	LEAT	GG		7:0-134639161	7	Gain	134.64	0.03	18		CAMK2B, OGDH, PSMC2, RAC1	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, PTPN12, LRRC4, IGF2BP3, TTYH3, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CT6A, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MPECE, ELMO1, KMT2E, ING3, MET, ZKSCAN1, GTF2I, AHCYL2, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, WWC2, AUIS2, RAPGEF5, C7orf26, MKLN1, MAGI2, HNRNP2B1, SNDI1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAC12, NR1F, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, GRB10, TNS3, SEPT7, TBX20, FOXP2, ATXN7L1, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, CADPS2, GTF2IRD1, LHFP13	
LEAT_EEBB_98	M	15	18	LEAT	GG		11:0-135006516	11	Gain	135.01	0.04	5		ADRBK1, B3GNT1, CKAP5, CNIH2, DDB1, DPF2, GANAB, GNG3, GRAMD1B, KDM2A, KMT2A, LTBP3, MARK2, MEN1, MUC5B, NXFI, PCNXL3, PLCB3, PPP2R5B, PRPF19, PSMC3, RPS6KA4, SART1, SSRP1, SYVN1	TTC17, PPP2R5B, SPI1, PRPF19, MAPK8IP1, COPB1, PPF1A1, RRAS2, DAGLA, PRKRIR, DCUN1D5, EED, ARHGEF17, POLD3, FNBP4, OSBP, DDX6, ARCN1, NRXN2, FBXO3, GTF2H1, KCNC1, FAM160A2, LRRRC4, SERPING1, SSRP1, TENM4, ZC3H12C, HMBS, MYRF, FADS2, CWC15, VPS26B, YAP1, ZDHHC5, SIK3, C11orf84, LRP5, FAT3, PCF11, PKNOX2, PSMC3, APBB1, DCHS1, PATL1, RRM1, DDB1, HNRNPUL2, LTBP3, SUV420H1, SIK2, STIP1, CHR11, RSF1, ADRBK1, RBM14, ARHGAP32, RAB6A, NPAS4, CNIH2, SART1, CLCF1, PPP1CA, AMBRA1, ZFP91, FJX1, PACS1, EHD1, DSCAML1, SF3B2, CSTF3, NUP98, KCNA4, PPM1E, EEF1G, RPS6KA4, PDE2A, BCL9L, ZBTB16, SPTY2D1, C2CD2L, MEN1, USP47, CPSF7, CAPRINI, GANAB, FARI, ANO1, PCNXL3, UVRRG, FAM168A, MPPED2, CTR9, GAB2, DLG2, SYVN1, ATG2A, SFI, AHNAK, IPO7, BRSK2, ARNTL, CUL5, PICALM, NUMA1, PPP6R3, INCENP, NAV2, SOX6, ARHGEF12, CTNND1, QSER1, MARK2, HYOU1, RDX, RELA, RBM4, RBM14-RBM4, KLC2, PHF21A, GRM5, PSMA1, PAX6, ARRB1, TBCEL, PRDM11, PSM13, CHRMA4, AP2A2, WEE1, MAML2, TRIM3, KIRREL3, ZBTB44, TRAF6, FLI1, DPF2, ATG13, KDM2A, C11orf30, CREB3L1, CKAP5, MUC5B, GRAMD1B, APIS, FZD4, RNF214, CELF1, NXF1, EIF3F, IGSF9B, ST5, KMT2A, HSPA8, OTUB1, PLCB3, SYT7	
LEAT_EEBB_98	M	15	18	LEAT	GG		18:18570235-78077248	18q	CNN-LOH	59.51	0.01	1		MAPRE2, SMAD7, TCF4	ZNF236, WDR7, DSG1, ZNF24, NOLA, PHLPP1, CDH2, ASXL3, ESCO1, C18orf8, RNF165, ZCCHC2, SETBP1, ATP5A1, TRAPP8, ZNF407, TSHZ1, ZNF532, SMAD4, MALT1, ZNF521, CTIF, SOCS6, KIAA1468, TCF4, RNF1, NEDD4L, SMAD2, CXXC1, CELF4, DCC, ZNF516, PIAS2, MBD1	
LEAT_EEBB_98	M	15	18	LEAT	GG		21:20190260-48129895	21q	CNN-LOH	27.94	0.03	2		HUNK, SIK1, CCT8, TIAM1, SCAF4, IFNGR2, PKNOX1, U2AF1, TRAPPC10, ZBTB21, PAXBP1, BRWD1, GABPA, SON, ETS2, COL6A1, SLC5A3, ITSN1, AGPAT3, DYRK1A, DSCAM, MORC3, ERG, SYNJ1		
LEAT_EEBB_101	F	9	13	LEAT	GG		5:0-180915260	5	Gain	180.92	0.29	11		ANKHD1, CAMK2A, CANX, CSNK1A1, CYFIP2, DDX46, ETF1, HDAC3, HNRNP11, IK, KDM3B, LARPI, NR2F1, PPP2CA, PURA, RBM22, TCERG1, UNC5A, ZMAT2	LCP2, YTHDC2, TRIP13, RBM22, SKIV2L2, PAPP7, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDLIM4, NDFIPL1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDEBB, SLC9A3, SOX30, ZFR, CDH6, VCAM, CPB4, FBXW11, SLC1A3, ARDC3, RBM27, JAKMIP2, VDCA1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH1, HMGC9, PCDHAC2, DBN1, MAMLI1, KIAA0947, TCEGF6, MAP1B, UTP15, RAPGEF6, NPM1, CREBRF, ANKHD1, HSPA9, PTGER4, CTNNA1, HCNI, GRPNI, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PWWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGCS1, SNX18, NKX2-5, UNC5A, PURA, EFNA5, RGS7BP, HOMER1, LARPI, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYS3, SEMA6A, TRIO, DDX46, HNRNP11, RICTOR, ETF1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCOF1, DDX4, ERBB2IP, KCTD16, FBN2, ZNF131, FNIP1, DROSHA, KCNN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNF145, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5	

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
LEAT_EEBB_101	F	9	13	LEAT	GG		6:0-171115067	6	Gain	171.12	0.33	8	MYB	GTBPB2, JARID2, KLHDC3, PPP2R5D, TMEM63B, TRERF1, XPO5	TFAP2D, RANBP9, TRAM2, FBXO5, TNFAIP3, DST, ATXN1, KIAA1244, CUL9, BACH2, REPS1, FAM65B, EIF1A, KIF13A, TMEM63B, TTBK1, GCM1, POU5F1, PHF3, NUP153, PSMB1, XPO5, SRF, SCUBE3, PHIP, C6orf136, PPARD, GLTSCR1L, KIF1A, DEF6, TCPI, STXBPS, COL12A1, ZBTB2, RPS10, KLHDC3, TUBB, EPB41L2, PRPF4B, JARID2, KCNQ5, ARID1B, E2F3, DOPEY1, FYN, IGF2R, BRPF3, WTAP, REV3L, MAP3K5, ANKSA1, SLC35F1, PLAGL1, ZNF318, DLL1, THBS2, TULP4, SCAF8, TAB2, HIVEP2, PTPRK, HSF2, NUS1, AMD1, CDK19, CDC40, NR2E1, ATG5, PRDM1, SIM1, PNISR, EPHA7, MAP3K7, MDM1, ZNF292, SYNCRIP, TBX18, SMAP1, BAI3, LRRC1, RUNX2, CDC5L, HSP90AB1, UBR2, TRERF1, CCND3, USP49, FOXPA, CMTR1, RNFB, SRSF3, SPDEF, PHFI, RXRB, COL11A2, PBX2, ZBTB12, BAG6, PRRC2A, PPP1R10, GNL1, TRIM39, GABBR1, TRIM27, C6orf62, HIVEP1, TFAP2A, DSP, RREB1, GMDS, MLLT4, MAP3K4, WASFI, TFAP2B, PFDN6, BRD2, AGPAT1, DDX39B, CDYL, DAAM2, SYNGAP1, FAM135A, GRIK2, BEND3, MDGA1, SNAP91, RPS18, ESR1, SENP6, PTK7, PPP2R5D, HDAC2, CCNC, RIMS1, L3MBTL3, GRM4, PACSINI, PDE10A, LATS1
LEAT_EEBB_101	F	9	13	LEAT	GG		7:0-159138663	7	Gain	159.14	0.33	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSM2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YWCC, AUTS2, TRIM24, RAGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNP2A21, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNACJ2, NRFI, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXF2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
LEAT_EEBB_101	F	9	13	LEAT	GG		10:0-135269349	10	Gain	135.27	0.32	3	PTEN	LDB1, PPP3CB, TRIM8, ZSWIM8	PSD, TDRD1, KIF11, MAP3K8, EPC1, MTPAP, NRP1, HNRNPH3, CCAR1, BTAF1, CPEB3, SLIT1, ABLIM1, PPRC1, ARID5B, DOCK1, ANK3, DIP2C, C10orf12, NODAL, KAT6B, HECTD2, WAPAL, KIF5B, TRIM8, MLLT10, LARP4B, CAMK2G, SEPH3, GRID1, FAM208B, PDZD8, ZMIZ1, PCGF5, PIK3AP1, SEC24C, TAF3, SORCS1, NKX2-3, HELLS, DDX21, WAC, ATRNL1, RET, SH3PXD2A, ADD3, UPF2, FRMD4A, ZRANB1, MCMBP, GTPBP4, LRRTM3, MGEA5, ZEB1, SGMS1, SMC3, SFMBT2, INP5A, EBF3, TIAL1, EIF3A, CACUL1, HSPA12A, FAM160B1, SHOC2, SLK, TAF5, CNM2, SUFU, ACTR1A, NFKB2, SCD, CHUK, LCOR, TM95F3, LGI1, ZCCHC24, DLG5, ZNF503, H2AFY2, TET1, BICC1, IPMK, PRKG1, MAPK8, PARD3, FAM171A1, CAMK1D, PPP3CB, PSAP, HERC4, CDK1, RASGEF1A, ITGB1, ARHGAP21, ZMYND11, ZSWIM8, JMJD1C, HK1, KCNMA1, P4HA1, LDB1, TSPAN14, HNRNPF, RBM17, CELF2, FGFR2, CCNJ, KLF6, CUL2, TCF7L2, EMX2
LEAT_EEBB_101	F	9	13	LEAT	GG		15:20052938-102531392	15q	Gain	82.48	0.32	3		RTF1, SIN3A	AQR, MGA, CSK, PIAS1, DLL4, SNRPA1, ABHD17C, IREB2, CTDSP2, THBS1, KIF23, ADAMI10, HERC2, AP3B2, SNX1, RAB11A, HCN4, TTBK2, IGF1R, ZNF710, FURIN, IQGAP1, UBR1, SPRED1, COPS2, LEO1, HDGFRP3, ZNF592, CLPX, MAP1A, PDIA3, PYGO1, CSNK1G1, ARNT2, OTUD7A, RPL4, FBXO22, RASGRP1, GABRB3, CYHPI, SEMA6D, FBN1, ZNF609, MORF4L1, ASB7, NEO1, DPP8, NPTN, BNC1, TJP1, CASCS, MEF2A, LINGO1, MYO9A, ZNF770, NTRK3, AKAP13, INO80, ARIH1, USP3, SLTM, TP53BP1, RYR3, RTF1, NR2F2, CHD2, SIN3A, UBE3A, MYO5A, BAHD1, FRMD5, RASGRF1, RFX7, USP8, ACAN, DENND4A, HERC1, ANP32A, MAGEL2, DMXL2, TLE3, RNF111, MEIS2, TLN2, CPEB1, PARP6
LEAT_EEBB_101	F	9	13	LEAT	GG		20:0-63025520	20	Gain	63.03	0.32	10		CENPB, TOP1	SALL4, CSTF1, EEF1A2, CSNK2A1, CHMP4B, SOGA1, PLAGL2, TAF4, LAMAS, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSE1L, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS3, SS18L1, TCLS, GGT7, PLCB1, EPB41L1, ATP9A, PMPA1, EZF1, CBFA2T2, SYCP2, KCNQ2, C20orf112, TOPI, YTHDF1, MRGBP, PSMAT7, PHACTR3, ZNF217, TSHZ2, B4GALT5, KCNB1, STAU1, ARFGF2, PREX1, NCOA3, PCIF1, YWHAB, PTPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPRE1, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH, RGS19, RAE1, NFAF2C, ADNP, ZNFEX1, TM95F4, SPATA2, ZNF512B, SLC12A5, ZMYND8
LEAT_EEBB_101	F	9	13	LEAT	GG		22:16000000-51304566	22q	Gain	35.30	0.31	1	DEPDC5	CSNK1E, PATZ1, PLXNB2, SF3A1	RTN4R, SF3A1, MAPK1, MORC2, RPL3, MYH9, EIF3D, RBX1, BRD1, GNAZ, RAC2, CELSR1, SHANK3, SMARCB1, UFD1L, MED15, HIRA, EP300, PATZ1, KCNJ4, BCR, PHF21B, SPECC1L, PRR14L, FBLN1, MAPK8IP2, SULT4A1, PITPNB, NF2, GGA1, DGC8R, ZC3H7B, LARGE, MKL1, APIB1, XRCC6, TCF20, PIM3, SCUBE1, SBFI, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1I, ELFN2, GRAMD4, CBX6, EWSR1, RBFOX2, MICAL3, HIC2, PLXNB2, TNRC6B, ZNRF3
LEAT_EEBB_103	F	18	23	LEAT	GG	HS Type I	2:0-243199373	2	Gain	243.20	0.02	3		CAD, FBXO11, HDLBP, MAP4K4, PPP1CB, PPP3R1, RQCD1, SCN2A, SF3B1, SNRNP200, UNC80, VSNL1, XPO1	CYP26B1, INPP4A, TRIB2, TMEM131, MSH2, NRBP1, PCGF1, IGFBP5, PPP1R7, DLX2, PAPOLG, ATAD2B, AFTPH, ACVR2A, RIFI, ILKAP, PER2, KIDINS220, CCT7, USP37, REV1, EPC2, SIX3, PPIG, HECW2, SLC40A1, ACTR3, POLR1B, TFCP2L1, PTPN4, CLASP1, LRP2, POLR1A, EHBPI, ATF2, MCM6, CCNT2, R3HDM1, AGPS, ADAM23, CUL3, ADD2, CAD, RAB10, KIF3C, FOSL2, VPS54, MEIS1, AMMECR1L, CTDSP1, RQCD1, CRIM1, ASAP2, EPHA4, ZFP36L2, RANBP2, SCN3A, TRIP12, FMNL2, DPYSL5, EIF5B, REL, MEMO1, KCNJ3, EN1, INHBB, IWS1, FZDS, ARPC2, CTLA4, SIX2, SCN1A, ANTXR1, AGAP1, COL3A1, RPS7, SEMA4C, PRKCE, MAT2A, PSMD1, KLF7, CFLAR, SP3, SNED1, ADAMI17, SPEG, SRSF7, SPAST, ROCK2, RAPH1, GLS, RNF144A, WDR33, NCL, SNRNP200, DIS3L2, FIGN, SF3B1, NPAS2, BCL11A, CDC8B, PUM2, NR4A2, ERBB4, PPM1G, HDAC4, MAP4K4, FNI, ZNF512, STK39, AFF3, SPTBN1, GFPT1, SCN2A, ARID5A, SAPI30, GTF3C2, INPP5D, MAP2, NCKAPI, STAT1, DLX1, BMPR2, COL5A2, RND3, ACTR2, DDX1, HSPD1, LRP1B, TBR1, HDLBP, ATG16L1, SPHKAP, XRCC5, STAT4, OSBPL6, HNRNPA3, BAZ2B, GALNT13, DPP10, CCT4, EFEMP1, SP9, PPP1CB, MOB1A, RAPGEF4, USP34, XPO1, SLC8A1, INO80D, FBXO11, PSME4, ATG4B, NRXN1, NCOA1, MBD5, WDR43, AAK1, SLC39A10, ARHGAP25, TET3, GIGYF2, ZNF638, KDM3A, ATG9A, HNRNPL, MGAT5, PSMD14, KCMF1, MAP3K2, AGFG1, CALCR1, SATB2, UBR3, BIRC6, SOS1, TMEM185B, MYT1L, SESTD1, PAX8, CNTNAP5, TLK1, KANSL3, CREB1, KIF5C, ASXL2, UNC80, EIF2B4, GLI2, BZWI, IKZF2, KIF1A, FBXO41, REEP1, ZEB2, HSP61-MOB4
LEAT_EEBB_103	F	18	23	LEAT	GG	HS Type I	3:0-188200897	3	Gain	188.20	0.02	1	NPRL2, RAF1, PIK3CA	AP2M1, ATP2B2, ATP6V1A, CELSR3, CTNNB1, DHX30, EIF4G1, GSK3B, PBRM1	SEMA3F, CELSR3, ZBTB47, NKTR, KALRN, SEC61A1, DAZL, SMARCC1, BHLHE40, TOPBP1, DNACJ3, PDZRN3, KAT2B, PIK3CA, CBLB, ARHGAP31, MECOM, XRN1, MAP3K13, RAB7A, RBM6, DOCK3, DYNCL11, IQSECI, ISY1, STXBPSL, FEZF2, UBPI, TOMM70A, FGD5, RAB6B, SLC6A1, CACNA1D, ERC2, APPL1, DCUN1D1, AP2M1, SLC4A7, EOMES, STT3B, PSMD6, PRICKLE2, CCN1L1, SLMAP, SNRK, SENP2, BSN, WDR48, ITPR1, ARF4, YEATS2, TWRF2, ETV5, RPL15, ZNF654, PSMD2, KIAA2018, GSK3B

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
															PIK3CA, PLXND1, RBM5, SEC63A1, STAG1, TOP2B TMEM39A, LRRN1, TMEM108, RUVBL1, NR2C2, RBM15B, EIF4A2, PLXND1, NFKB1Z, IP6K2, CD86, RARB, COPB2, KPNA4, FNDC3B, SEC62, PLCH1, GATA2, PODXL2, KPNA1, NISCH, RBM5, CTNND1, MITF, ARIH2, PPP4R2, FXR1, GRM7, MAP4, ATP2B2, ZNF148, TSC22D2, STAG1, TRIM71, BRPF1, SRGAP3, PDCD10, ATP2C1, PLXNA1, PKRCD, SFMBT1, PBRM1, QRICH1, THRB, UBE2E2, EPHB1, FRMD4B, ATXN7, ANKRD28, SETD5, MAGI1, BCL6, RADS54L2, SETD2, SCNSA, SATB1, PLCL2, ISY1-RAB43, EIF4G1, ZNF445, ACTL6A, TBL1XR1, ARPC4, USP19, TOP2B, TNIK, CNBP, DHX30, SCHIP1, NBEAL2, TRA2B, CNOT10, SLC6A6, SKIL, BAPI, TIPARP, ADCY5, CLASP2, U2SURP, WNT5A, MED12L, ZBTB20, CACNA2D3, SLITRK3, CAMKV, PIK3CB, CACNA2D2, ARMC8, ROBO2, TFDP2, LSAMP, FOXP1, FAM208A, PHC3, GMP5, DHX36, ZBTB38, DAG1
LEAT_EEBB_103	F	18	23	LEAT	GG	HS Type I	7:0-159138663	7	Gain	159.14	0.27	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2 ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YWV2, AUTS2, TRIM24, RARGEFS, C7orf26, UBE3C, MKLN1, MAGI2, HNRNP2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNACJ2, NRFI, ZNF800, PTPRZ1, SRPK2, DMFT1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFP13, CNOT4	
LEAT_EEBB_103	F	18	23	LEAT	GG	HS Type I	9:0-141213431	9	Loss	141.21	0.36	3	TSC1	ABCA2, DNMI1, GABBR2, GRIN1, NOTCH1, PHF19, SCAI, SET, SMU1, SPTAN1, STXBPI, TLN1, VCP, WDR5 SETX, GDA, CLTA, TAF1L, TRAF2, OLFM1, LRRC8A, KIAA0368, RALGPS1, DAB2IP, GABBR2, RNF38, ERP44, UBE2R2, BRINP1, MAPKAP1, UHRF2, FAM120A, ZNF462, NOTCH1, SMC2, GNAQ, ZNF618, ZER1, ALDH1A1, WNK2, SLC6, TSCI, ZMYND19, BRD3, ZNF483, SEC16A, TLN1, RPL7A, ANAPC2, PTCH1, TESK1, ANP32B, ABCA2, COL27A1, BICD2, PRRC2B, RAD23B, PAX5, WDR5, VCP, PHF2, NUP214, TOPORS, ASTN2, NAA35, CACNA1B, GRIN1, RABL6, COL5A1, RALGDS, RARGEFI, ABL1, NUP188, SET, SPTAN1, DNMI1, ENG, STXBPI, ZBTB34, ZBTB43, SCAI, NR5A1, LHX2, DENND1A, RABGAPI, RC3H2, RAB14, PHF19, MEGF9, PRPF4, UGCG, EPB41L4B, KLF4, SLC44A1, TEX10, NCBP1, CDC14B, SYK, SPIN1, ZCCH6, NTRK2, HNRNPK, UBQLN1, TLE1, TLE4, RORB, SHB, CNTFR, LK, MLLT3, RPS6, BNC2, PSIP1, NFIB, PTPRD, JAK2, CDC37L1, RFX3, SMARCA2, CAMSAP1, TGEI, PPP2R4, GAPVD1, LHX6, SMU1, ELAVL2, SVEP1, DAPK1, GOLGA2, STRBP, SEMA4D, RUSC2, EHMT1, RXRA, NR6A1, FBXW2	
LEAT_EEBB_103	F	18	23	LEAT	GG	HS Type I	16:0-90354753	16	Gain	90.35	0.02	3	NPRL3, TSC2	CNOT1, CTCF, EDC4, FBXL19, MAPK8IP3, MAZ, NUDT21, SF3B3, STX1B, UBE2I, USP7 CACNG3, TFAP4, GLG1, STX1B, C16orf70, CORO1A, NUTF2, USP10, TSC2, CAPN15, TOX3, MAPK8IP3, SALL1, FUS, VPS4H, DYNC1L2, XYLT1, RBL2, PKD1, RAB11FIP3, CREBBP, FOXF1, GNAO1, CSNK2A2, SRCAP, SETD1A, ZNF629, CTCF, NKD1, ZFYX3, CDH11, ZCCHC14, IRF8, JPH3, ATP6V0D1, ADCY9, VPS35, ZNF319, PLK1, NUDT21, ZC3H18, ANKRD11, SF3B3, PRKCB, XPO6, TAOX2, RFXO1, TUBB3, DNAAJ2, CNOT1, RANBP10, MKL2, RBBP6, GLYR1, SH2B1, RNF40, C16orf72, IL21R, MTS1L, PDPK1, CASKIN1, USP7, NFATC3, UBE2I, FBRS, GTF3C1, PLCG2, FBXL19, RPL13, BANP, APIG1, BRD7, ATXN2L, TNRC6A, MYH11, KIAA0430, ZC3H7A, GRIN2A, UBN1, FBXL16, TBC1D10B, CBFb, BCAR1, FAM65A, CYLD, NFAT5, GSPT1, PAPD5, HERPUDI1, SMG1, CMIP, RSPRY1, ZNF423, RNPS1, CHD9, CDH8, TERF2	
LEAT_EEBB_103	F	18	23	LEAT	GG	HS Type I	17:0-75075664	17	Loss	75.08	0.05	1	NFI	ACACA, CACNA1G, CHD3, CLTC, CLUH, COL1A1, DLG4, EFTUD2, EZH1, FXR2, GIT1, HDACS, KAT2A, KPNB1, MBTD1, MINK1, MTMR4, NEURL4, NFI, NLK, PIP4K2B, POLR2A, PRPF8, SENP3, SLC25A11, SREBF1, STAT3, STAT5A, STAT5B, SUPT6H, THRA, UBTf, UNK YBX2, XYLT2, APPBP2, DERL2, MNT, TBX21, NUFIP2, PSMB3, RPL19, RPS6KB1, DDX5, ASIC2, HNF1B, COL1A1, HDACS, HLF, FOXN1, TBX2, SOX9, NUP85, OMC, FXR2, RARA, RAPIGAP2, KDM6B, SRSF1, KAT7, PSMD11, TAOK1, SPAG9, VMP1, SLC4A1, KANSL1, SMURF2, RABEP1, PITPNM3, SMG6, YWHAE, PSMD3, ATP6V0A1, STAT3, FBXL20, SRCIN1, KCNH4, NCOR1, COPS3, SSH2, CLTC, PIP4K2B, MS12, KPNB1, IGF2BP1, KLHL10, STAT5B, PSME3, EIF4A1, CRK, MED1, USP32, NEUROD2, UBTf, NLGN2, MRC2, GGNBP2, BPTF, PPM1E, ZBTB4, YPEL2, AP2B1, PITPNA, SUPT6H, PPP1R9B, LASP1, UBE20, PHF23, KIF1C, CASKIN2, ATAD5, NPEPPS, POLR2A, SUZ12, FOXJ1, MTMR4, HSF5, MLLT6, RAB11FIP4, RTN4RL1, FMNL1, HEXIM1, PHF12, NDEL1, NXN, SYNRG, STAT5A, TLK2, IKZF3, SMARCE1, ACACA, RAI1, MAP2K4, MINK1, PSMD12, NFI, RHOT1, HELZ, CACNA1G, MYH10, MAP3K3, BECN1, NFE2L1, SP2, ARHGAP44, CHD3, ZZZF1, C17orf85, SPOP, CBX1, CNP, GIT1, MPRIP, PAFAH1B1, MED13, ALKBH5, NEURL4, DLG4, NLK, C17orf104, CAMTA2, DCAF2, TOP2A, TANC2, EFTUD2, GJC1, ERN1, INTS2, CDK12, ATXN7L3, DNAAJ2, TOB1, LUC7L3, MYO18A, CDC27, ANKFY1, CLUH, PRPF8, CTDNEP1, PELP1, SOCS7, DDX42, MSL1, VEZF1, PITPN1, MBTD1, PRKARIA, UNK, LSM12, GPATCH8, NMT1, AC005358.1	
LEAT_EEBB_103	F	18	23	LEAT	GG	HS Type I	22:17223938-51304566	22q	Loss	34.08	0.08	4	DEPDC5	CSNK1E, PATZ1, PLXNB2, SF3A1 RTN4R, SF3A1, MAPK1, MORC2, RPL3, MYH9, EIF3D, RBX1, BRD1, GNAZ, RAC2, CELSR1, SHANK3, SMARCB1, UFD1L, MED15, HIRA, EP300, PATZ1, KCNJ4, BCR, PHF21B, SPECC1L, PRR14L, FBLN1, MAPK8IP2, SULT4A1, PITPNB, NF2, GGA1, DGCR8, ZC3H7B, LARGE, MKL1, APIB1, XRCC6, TCF20, PIM3, SCUBE1, SBF1, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1I, ELFN2, GRAMD4, CBX6, EWSR1, RFXO2, MICAL3, HIC2, PLXNB2, TNRC6B, ZNRF3	
LEAT_EEBB_50	M	26	27	LEAT	IDA	HS Type I	5:0-180915260	5	Gain	180.92	0.35	11		ANKHD1, CAMK2A, GANX, CSNK1A1, CYFIP2, DDX46, ETF1, HDAC3, HNRNP11, IK, KDM3B, LARPI, NR2F1, PPP2CA, PURA, RBM22, TCEG1, UNCSA, ZMAT2 LCP2, YTHDC2, TRIP13, RBM22, SKIV2L2, PAPD7, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDLIM4, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDE8B, SLC9A3, SOX30, ZFR, CDH6, VCAN, CPEB4, FBXW11, SLC1A3, ARRDC3, RBM27, JAKMIP2, VDACA1, AF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH1, HMCCR, PCDHAC2, DBN1, MAMML1, KIAA0947, TCEG1, MAP1B, UTP15, RARGE6, NPM1, CREBRF, ANKHD1, HSPA9, PTGER4, CTNNA1, HCN1, GPRIN1, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PVVWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGCS1, SNX18, NKX2-5, UNCSA, PURA, EFN5A, RGS7BP, HOMER1, LARPI, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYS13, SEMA6A, TRIO, DDX46, HNRNP11, RICTOR, ETF1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNPO, FBXO38, MTRF3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, CTOF1, DDX4, ERBB2IP, CTD16, FBN2, ZNF131, FNIP1, DROSHA, KCNN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNF145, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5	

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
LEAT_EEBB_50	M	26	27	LEAT	IDA	HS Type I	7:0-159138663	7	Gain	159.14	0.35	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSM2A, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCN2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MPECE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHYCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YWCC2, AUTS2, TRIM24, RAGGFEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNP2A1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAJC2, NR1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAMI31B, CADP52, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
LEAT_EEBB_50	M	26	27	LEAT	IDA	HS Type I	11:0-135006516	11	Gain	135.01	0.34	5		ADRBK1, B3GNT1, CKAP5, CNH2, DDB1, DPF2, GANAB, GNG3, GRAMD1B, KDM2A, KMT2A, LTBP3, MARK2, MEN1, MUC5B, NXF1, PCNXL3, PLCB3, PPP2R5B, PRPF19, PSMC3, RPS6KA4, SART1, SSRP1, SYVN1	TTC17, PPP2R5B, SPI1, PRPF19, MAPK8IP1, COPB1, PPFIA1, RRS2, DAGLA, PRKRIR, DCUN1D5, EED, ARHGFEF17, POLD3, FNBP4, OSBP, DDX6, ARCN1, NRXN2, FBXO3, GTF2H1, KCNC1, FAMI160A2, LRRC4C, SERPING1, SSRP1, TENM4, ZC3H12C, HMBS, MYRF, FADS2, CWC15, VPS26B, YAP1, ZDHHC5, SIK3, C11orf84, LRPS, FAT3, PCF11, PKNOX2, PSMC3, APBB1, DCHS1, PATL1, RRM1, DDB1, HNRNPUL2, LTBP3, SUV420H1, SIK2, STIP1, CHRMI1, RSF1, ADRBK1, ANKRD52, ANKRD52, RAB6A, NPAS4, CNH2, SART1, CLCF1, PPP1CA, AMBRA1, ZFP91, FJX1, PACS1, EHD1, DSCAM1L, SF3B2, CSTF3, NUP98, KCNA4, PPM1E, EEF1G, RPS6KA4, PDE2A, BCL9L, ZBTB16, SPTY2D1, C2CD2L, MEN1, USP47, CPSE7, CAPRIN1, GANAB, FARI, ANO1, PCNXL3, UVRAG, FAMI168A, MPPED2, CTR9, GAB2, DLG2, SYVN1, ATG2A, SFI, AHNK, IPO7, BRSK2, ARNTL, CUL5, PICALM, NUMA1, PPP6R3, INCENP, NAV2, SOX6, ARHGFEF2, CTNND1, QSER1, MARK2, HYOU1, RDX, RELA, RBM4, RBM14-RBM4, KLC2, PHF21A, GRM5, PSM1A, PAX6, ARRB1, TBCEL, PRDM11, PSM13, CHRM4, AP2A2, WEE1, MAML2, TRIM3, KIRREL3, ZBTB44, TRAF6, F11, DPF2, ATX13, KDM2A, C11orf30, CREB3L1, CKAP5, MUC5B, GRAMD1B, APIS, FZD4, RNF214, CELF1, NXF1, EIF3F, IGSF9B, ST5, KMT2A, HSPA8, OTUB1, PLCB3, SYT7
LEAT_EEBB_50	M	26	27	LEAT	IDA	HS Type I	12:0-133851895	12	Gain	133.85	0.06	8	KRAS, PTPN11	ANKRD52, ATP2B1, CHD4, CS, DDX23, GCN1L1, HECTD4, LRP1, NAA25, NAB2, PA2G4, PLXNC1, RARG, SCN8A, SETD1B, SMARCC2, SMARCD1, STAT2, USP5	SENP1, HDAC7, FOXJ2, TNFRSF1A, CBX5, SART3, ASIC1, CSRN2, CNOT2, USPS, HCFC2, RAB35, LRPI, SLC38A2, MS11, HNF1A, TBX3, GDF11, ESPL1, KCN3, KCNMB4, PLXNC1, SLC41A2, WBP11, ATF7IP, NAP11, ASUN, CDK17, CCND2, LRP6, CORO1C, LPCAT3, CUX2, LHX5, NAA25, ATP5B, PTGES3, EIF4B, COP21, CLSTN3, SMARCC2, ANKRD52, SETD1B, DDX1, USP15, BTBD11, EPSB, MED13L, NCKAP1L, ITGA5, FR52, C2T, TMEM132B, HSP90B1, STAT6, GCN1L1, KMT2D, TUBA1A, DIP2B, PA2G4, LEMD3, DHX37, TBX5, STAT2, WNK1, MLXIP, PITPNM2, ULK1, EEA1, EZF7, SPI, FBXO21, SRSC2, XPOT, ARID2, PTPRB, TUBA1B, SARNP, ZCCHC8, FAM60A, NOS1, KSR2, PPP1CC, HNRNP1A, NTN4, DYRK2, RNF41, R3HDM2, CACNA1C, CS, PTPN11, SPL3, SCN8A, SRGAP1, GIT2, MBD6, ATN1, CHD4, DNAJC14, RFX4, PCBP2, SCAF11, KDM2B, ATXN2, ZFC3H1, NABP2, COL2A1, NOP2, PRMT8, STK38L, DENND5B, EP400, CIT, TAOK3, RIC8B, MON2, SMARCB1, ETV6, ZNF384, CCDC64, LARP4, SLC38A1, AEBP2, KDM5A, SETD8, RASSF8, NCOR2, ATF7, SBN01, TMEM132D, RPL6, RARG, PAN2, ZDHHC17, ATP2B1, PLEKHAS5, DCTN2, CPSE6, NELL2, PPP1R12A, SOX5, SLC4A8, KIF5A, PRICKLE1, PTPN6, MDM2, NAV3, ATP2A2, CLIP1, ACVR1B, SFSWAP, RAN, PHCI, CAND1, MAP3K12, AGAP2, ANKS1B, PRPF40B, PPFIA2, HECTD4, BAZZA, SPATS2, GRIN2B
LEAT_EEBB_50	M	26	27	LEAT	IDA	HS Type I	13:19377679-115169878	13q	Gain	95.79	0.06	2		MYCBP2, NBEA	AKAP11, FLT3, EFN2, XPO4, RNF17, DCLK1, IPO5, KPN3, RB1, RBM26, ZC3H13, USP12, FLT1, DACH1, INTS6, PDS5B, HSPH1, PSPC1, COG3, FBXL3, MYO16, CHAMPI1, TFDPI, CUL4A, ARHGFEF7, COL4A1, TNFSF13B, FAMI155A, TFP2, TM9SF2, DOCK9, HS6ST3, SLITRK1, SPRY2, KLF12, KBTBD6, FOXO1, FRY, SLC7A1, PAN3, NUPL1, FGF9, LATS2, ZMYM2, LRCH1, NBEA, MTUS2, TSC22D1, FNDC3A, MYCBP2
LEAT_EEBB_50	M	26	27	LEAT	IDA	HS Type I	17:0-81195210	17	Gain	81.20	0.24	1	NFI	ACACA, CACNA1G, CHD3, CLTC, CLUH, COL1A1, DLG4, EFTUD2, EZH1, FXR2, GIT1, HDAC5, KAT2A, KPNB1, MBTD1, MINK1, MTMR4, NEURL4, NFI, NLK, PIP4K2B, POLR2A, PRPF8, SENP3, SLC25A11, SREBF1, STAT3, STAT5A, STAT5B, SUPT6H, THRA, UBT, UNK	YBX2, XYLT2, APPBP2, DERL2, MNT, TBX21, NUFIP2, PSMB3, RPL19, RPS6KB1, DDX5, ASIC2, HNF1B, COL1A1, HDAC5, HLF, FOXN1, TBX2, SOX9, NUP85, OMC, FXR2, RARA, RAPIGAP2, KDM6B, SRSF1, KAT7, PSM11, TAOK1, SPAG9, VMP1, SLC4A1, KANSL1, SMURF2, RABEP1, PITPNM3, SMG6, YWHAE, PSM13, ATP6V0A1, STAT3, FBXL20, SRCIN1, KCN4, NCOR1, COPS3, SSH2, CLTC, EIF4A3, CBX8, CBX4, PIP4K2B, MS12, KPNB1, IGF2BP1, KLHL10, STAT5B, PSM2, EIF4A1, CRK, MED1, USP32, NEUROD2, UBT, NLGN2, MRC2, GGNBP2, BPTF, FASN, RPTOR, RPI1-1055B8.7, PPM1E, CBX2, ZBTB4, YPEL2, AP2B1, PITPN3, CSNK1D, SUPT6H, PPP1R9B, LASP1, UBE2O, PHF23, KIF1C, CASKIN2, ATAD5, NPEPPS, POLR2A, SUZ12, FOXJ1, MTMR4, HSF5, CHMP6, MLLT6, RAB11FIP4, NPLOC4, RTN4RL1, P4HB, FMNL1, HEXIM1, PHF12, NDEL1, TNRC6C, NXN, SYNRG, STAT5A, TLK2, IKZF3, SMARCE1, ACACA, RAI1, MAP2K4, MINK1, PSM12, NFI, RHOT1, HELZ, CACNA1G, MYH10, CYTH1, MAP3K3, BECN1, NFE2L1, SP2, ARHGAP44, CHD3, ZZE1, C17orf85, GPS1, SPOB, CBX1, CNP, GIT1, MPRIP, PAFAH1B1, MED13, ALKBH5, NEURL4, DLG4, NLK, C17orf104, CAMTA2, DCAF7, TOP2A, TANC2, EFTUD2, GJC1, SEPT9, ERN1, INTS2, CDK12, ATXN7L3, DNAJC7, TOB1, LUC7L3, MYO18A, CDC27, ANKFY1, CLUH, PRPF8, CTDNEP1, PELP1, SOCS7, DDX42, MSL1, VEZF1, PITPN1, MBTD1, PRKARIA, UNK, LSM12, GPATCH8, NMT1, ACO05358.1
LEAT_EEBB_50	M	26	27	LEAT	IDA	HS Type I	19:0-59128983	19	Gain	59.13	0.33	5		ACTN4, AP2A1, ATP1A3, BRD4, BRSK1, CA11, CACNA1A, CACTIN, CADM4, CALM3, CARM1, CHERP, CLPTM1, DAZAP1, DCAF15, DNMT1, DYRK1B, EGLN2, FZR1, GRIN2D, GSK3A, IRF2BP1, KHSRP, LMTK3, MAP4K1, MAST1, MAU2, NACCI, NOVA2, NUMBL, PIAS4,	PPP5C, CD22, MBD3, ANO8, KDM4B, BCL3, REXO1, CDC34, HNRNP1, RELB, SLC17A7, SGTA, FBL, RASIP1, RPL18A, RAB3A, KMT2B, USF2, ERF, GSK3A, SIPA1L3, CADM4, DAZAP1, TSHZ3, C3, VASP, SYMPK, UBA2, TSKS, SUGP1, ABHD8, WDR18, MAST1, PVRL2, SAFB2, MLLT1, ACTN4, NUMBL, TRIM28, ZC3H4, EIF3G, ZNF331, RFX1, DCAF15, CSNK1G2, HPN, CCNE1, UPFI, ELL, MAST3, MARK4, GRIK5, MAP2K2, DPP9, PIAS4, GRIN2D, BRD4, WIZ, NOTCH3, PRKCG, ARID3A, SAE1, ADAMTS10, RPS11, RNF126, NACCI, CELF5, SHANK1, KIAA0355, RAB8A, CHAF1A, IRF2BP1, RFX2, ZNF296, LTBP4, PRKACA, U2AF2, EEF2, BRSK1, SAMD4B, PRPF31, PPP2R1A, LMBN2, HNRNP1, LENG8, STK11, CARM1, PPFIA3, PIPSK1C, CLPTM1, ARHGFEF1, LRRC25, RANBP3, LPHN1, PDE4A, FOSB, AP3D1, DPF1, ZNF536, TMEM259, PTBP1, ATP13A1, PTPRS, XAB2, AP2A1, BABAM1, DNMT1, DDA1, CACNA1A, GATAD2A, SCAF1, LONP1, TTYH1, SIN3B, DNMT2, STRN4, HNRNPUL1, MAU2, FZR1, GLTSCR1, NFIX, MAP2K7, KHSRP, DOT1L, ARHGAP35, CNOT3, ELAVL1, PPP6R1, PRR12, TNPO2, TOMM40, CACTIN, SMARCA4, PRKD2, CAMSAP3, ILF3, PRMT1, EPS15L1, ZNF146, UNCI3A, POU2F2, APC2, EVI5L, HOMER3, ATP1A3, CHERP, RPL18, CIC, LRFN3, SAFB, MAP4K1, DKFZP761J1410, DYRK1B, FCHO1, RUVBL2, MYO9B, RPS5, NUP62, SNRNP70, SUPT5H, MYH14, SURF2, VAV1, NPAS1, FKBP8

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
														PPFIA3, PPP2R1A, PPP5C, PRKACA, PRKCG, PRMT1, PRPF31, PRR12, RFX1, SHANK1, SIN3B, SLC8A2, SMARCA4, SPTBN4, SUPT5H, TMEM259, TNPO2, TOMM40, U2AF2, UPF1, XAB2	
LEAT_EEBB_50	M	26	27	LEAT	IDA	HS Type I	20:0-63025520	20	Gain	63.03	0.03	10		CENPB, TOP1	SALL4, CSTFI, EEF1A2, CSNK2A1, CHMP4B, SOGA1, PLAGL2, TAF4, LAMAS, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSE1L, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS3, SS18L1, TCFL5, GGT7, PLCB1, EPB41L1, ATP9A, PMEPA1, EZF1, CBFA2T2, SYCP2, KCNQ2, C20orf112, TOP1, YTHDF1, MRGBP, PSMA7, PHACTR3, ZNF217, TSHZ2, B4GALT5, KCNB1, STAU1, ARFGF2, PREX1, NCOA3, PCIF1, YWHAB, PTPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPRE1, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH, RGS19, RAE1, NFATC2, ADNP, ZNF1, TM95F4, SPATA2, ZNF512B, SLC12A5, ZMYND8
LEAT_EEBB_112	M	8	26	LEAT	IDA		9:0-141213431	9	Loss	141.21	0.22	3	TSC1	ABCA2, DNMI1, GABBR2, GRIN1, NOTCH1, PHF19, SCAL, SET, SMU1, SPTAN1, STXBPI, TLN1, VCP, WDR5	SETX, GDA, CLTA, TAF1L, TRAF2, OLFM1, LRRC8A, KIAA0368, RALGPS1, DAB2IP, GABBR2, RNF38, ERP44, UBE2R2, BRINP1, MAPKAP1, UHRF2, FAM120A, ZNF462, NOTCH1, SMC2, GNAQ, ZNF618, ZER1, ALDH1A1, WNK2, NOL6, TSC1, ZMYND19, BRD3, ZNF483, SEC16A, TLN1, RPL7A, ANAPC2, PTCH1, TESK1, ANP32B, ABCA2, COL27A1, BICD2, PRRC2B, RAD23B, PAX5, WDR5, VCP, PHF2, NUP214, TOPORS, ASTN2, NAA35, CACNA1B, GRIN1, RABL6, COL5A1, RALGDS, RAPGEF1, ABL1, NUP188, SET, SPTAN1, DNMI1, ENG, STXBPI, ZBTB34, ZBTB43, SCAI, NR5A1, LHX2, DENND1A, RABGAP1, RC3H2, RAB14, PHF19, MEGF9, PRPF4, UGCG, EPB41L4B, KLF4, SLC44A1, TEX10, NCBP1, CDC14B, SYK, SPIN1, ZCCHC6, NTRK2, HNRNPK, UBQLN1, TLE1, TLE4, RORB, SHB, CNTRF, TEK, MLLT3, RPS6, BNC2, PSIP1, NFIB, PTPRD, JAK2, CDC37L1, RFX3, SMARCA2, CAMSAP1, NTNG2, PPP2R4, GAPVD1, LHX6, SMU1, ELAVL2, SVEP1, DAPK1, GOLGA2, STRBP, SEMA4D, RUSC2, EHMT1, RXRA, NR6A1, FBXW2
LEAT_EEBB_112	M	8	26	LEAT	IDA		18:0-78077248	18	Loss	78.08	0.24	1		MAPRE2, SMAD7, TCF4	ZNF236, WDR7, DSG1, ZNF24, NOL4, THOC1, USP14, ANKRD12, PHLPP1, CDH2, ASXL3, ESCO1, C18orf8, RNF165, ZCCHC2, SETBP1, ATP5A1, TRAPP8, ZNF407, PTPN2, DLGAP1, SMCHD1, TSHZ1, GNAI, ZNF532, SMAD4, MALTI, ZNF521, CTIF, SOCS6, KIAA1468, TCF4, ROCK1, NEDD4L, PPP4R1, SMAD2, CXCC1, CELF4, DCC, ZNF516, PTPRM, PIAS2, MBD1
LEAT_EEBB_113	M	2	47	LEAT	MVNT		5:0-180915260	5	Gain	180.92	0.02	11		ANKHD1, CAMK2A, CANX, CSNK1A1, CYFP2, DDX46, ETF1, HDAC3, HNRNP1, IK, KDM3B, LARPI, NR2F1, PPP2CA, PURA, RBM22, TCERG1, UNCSA, ZMAT2	LCP2, YTHDC2, TRIP13, RBM22, SKIV2L2, PAPD7, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PLD1A, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDEBB, SLC9A3, SOX30, ZFR, CDH6, VCAN, CPEB4, FBXW11, SLC1A3, ARDC3, RBM27, JAKMIP2, VDAC1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH1, HMGC, PCDHAC2, DBN1, MAMLI1, KIAA0947, TCERG1, MAP1B, UTP15, RAPGEF6, NPM1, CREBRF, ANKHD1, HSPA9, PTGER4, CTNNA1, HCNI, GPRIN1, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PWWP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGC51, SNX18, NKX2-5, UNCSA, PURA, EFNA5, RGS7B, HOMER1, LARPI, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYSL3, SEMA6A, TRIO, DDX46, HNRNP1, RICTOR, ETF1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A, DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCOF1, DDX4, ERBB2IP, KLTDL16, FBN2, ZNF131, FNIPI, DROSHA, KCNN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNF145, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMP1, FBXL17, SMAD5
LEAT_EEBB_113	M	2	47	LEAT	MVNT		7:0-159138663	7	Gain	159.14	0.06	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YWCC2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAJC2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN17L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFP3, CNOT4
LEAT_EEBB_95	F	6	39	LEAT	PA		4:0-191154276	4	Gain	191.15	0.15	5		ABCE1, ANKRD17, CTBP1, DHX15, POLR2B, PPP3CA, SMARCA5, WDFY3	BOD1L1, PHOX2B, NFKB1, PDGFRA, UBE2K, KDR, PPAT, COPS4, RASGEF1B, RAPGEF2, FNIP2, ADD1, PPARGC1A, SEPT11, CNOT6L, CENPE, LEF1, SEC24B, CCNA2, NAF1, RPS3A, GPM6A, FBXW7, GRID2, SMARCA5, UCHL1, KIT, CTBP1, GABRB1, WDFY3, HMGB2, GRIA2, NAA15, HHIP, ABCE1, DCLK2, PDSSA, LDB2, PITX2, KIAA0232, REST, CLOCK, LIMCH1, HNRNP, EDNR4, FAM193A, CRMP1, DHX15, TRIM2, RAPIGDS1, LINS4, FBXLS, RBPJ, YTHDC1, CLCN3, HTT, ANK2, NR3C2, FRYL, ANKRD17, SMARCA2, G3BP2, PCGF3, ZNF827, POLR2B, ATP8A1, RBM47, RFC1, WHSC1, ELF2, FAT4, ELOVL6, PPP3CA, AFF1, CPE, JAKMIP1, KIAA0922, SLC4A4, BMPR1B, RPL9, RELL1, OTUD4, PLRG1, WDR1, BEND4, PDGFC, ANKRD50, SLIT2, CDKN2AIP, MAML3, GABRA2, TENM3, LPHN3, KLHL2, SMAD1
LEAT_EEBB_95	F	6	39	LEAT	PA		6:0-171115067	6	Gain	171.12	0.06	8	MYB	GTBP2, JARID2, KLHDC3, PPP2R5D, TMEM63B, TRERF1, XPO5	TFAP2D, RANBP9, TRAM2, FBXO5, TNFAIP3, DST, ATXN1, KIAA1244, CUL9, BACH2, REPS1, FAM65B, KIF13A, TMEM63B, TTBK1, GCM1, POU5F1, PHF3, NUP153, PSMB1, XPO5, SRF, SCUBE3, PHIP, C6orf136, PPARD, GLTSCR1L, EEF1A1, DEF6, TCP1, STXBPS, COL12A1, ZBTB2, RPS10, KLHDC3, TUBB, EPB41L2, PRPF4B, JARID2, KCNQ5, ARID1B, EZF3, DOPEY1, FYN, IGF2R, BRPF3, WTAP, REV3L, MAP3K5, ANKSI1, SLC35F1, PLAGL1, ZNF318, DLL1, THBS2, TULP4, SCAF8, TAB2, HIVEP2, PTPRK, HSF2, NUS1, AMD1, CDK19, CDC40, NR2E1, ATG5, PRDM1, SIM1, PNISR, EPHA7, MAP3K7, MDN1, ZNF292, SYNCRIP, TBX18, SMAP1, BA13, LRRC1, RUNX2, CDC5L, HSP90AB1, UBR2, TRERF1, CCND3, USP49, FOXP4, CMTR1, RNF8, SRSF3, SDEF, PHF1, RXRB, COL11A2, PBX2, ZBTB12, BAG6, PRRCA2, PPP1R10, GNLI, TRIM39, GABBR1, TRIM27, C6orf62, HIVEP1, TFAP2A, DSP, RREB1, GMDS, MLLT4

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
															MAP3K4, WASFI, TFAP2B, PFDN6, BRD2, AGPAT1, DDX39B, CDYL, DAAM2, SYNGAP1, FAM135A, GRIK2, BEND3, MDGA1, SNAP91, RPS18, ESR1, SENP6, PTK7, PPP2R5D, HDAC2, CCNC, RIMS1, L3MBTL3, GRM4, PACSINI, PDE10A, LATS1
LEAT_EEBB_95	F	6	39	LEAT	PA		7:0-159138663	7	Gain	159.14	0.15	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YWCC2, AUTS2, TRIM24, RARGEFS, C7orf26, UBE3C, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNACJ2, NRFI, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
LEAT_EEBB_95	F	6	39	LEAT	PA		10:0-135534747	10	Gain	135.53	0.14	3	PTEN	LDB1, PPP3CB, TRIM8, ZSWIM8	PSD, TDRD1, KIF11, MAP3K8, EPC1, MTPAP, NRPI, HNRNPH3, CCAR1, BTAF1, CPEB3, SLIT1, ABLIM1, PPRC1, GRID5, DOCK1, ANK3, DIP2C, C10orf12, NODAL, KAT6B, HECTD2, WAPAL, KIF5B, TRIM8, MLLT10, LARP4B, CAMK2G, SEPHS1, ARID1, FAM208B, PDZD8, ZMIZ1, PCGF5, PIK3API, SEC24C, TAF3, SORCS1, NKX2-3, HELLS, DDX21, WAC, ATRNL1, RET, SH3PXD2A, ADD3, UPF2, FRMD4A, ZRANB1, MCMBP, GTPBP4, LRRTM3, MGEA5, ZEB1, SGMS1, SMC3, SFMBT2, INPP5A, EBF3, TIAL1, EIF3A, CACUL1, HSPA12A, FAM160B1, SHOC2, SLK, TAF5, CNM2, SUFU, ACTR1A, NFKB2, SCD, CHUK, LCOR, TM9SF3, LGI1, ZCCHC24, DLG5, ZNF503, H2AFY2, TET1, BICC1, IPMK, PRKG1, MAPK8, PARD3, FAM171A1, CAMK1D, PPP3CB, PSAP, HERC4, CDK1, RASGEF1A, ITGB1, ARHGAP21, ZMYND11, ZSWIM8, JMJDC1, HK1, KCNMA1, P4HA1, LDB1, TSPAN14, HNRNPF, RBM17, CELF2, FGFR2, CCNJ, KLF6, CUL2, TCF7L2, EMX2
LEAT_EEBB_95	F	6	39	LEAT	PA		17:26851501-81195210	17q	CNN-LOH	54.34	0.12	2	NFI	ACACA, CACNA1G, CLTC, COL1A1, EFTUD2, EZH1, GITI1, HDAC5, KAT2A, KPNB1, MBTD1, MTMR4, NFI, PIPAK2B, STAT3, STAT5A, STAT5B, SUPT6H, THRA, UBT, UNK	XYLT2, APPBP2, TBX21, NUFIP2, PSMB3, RPL19, RPS6KB1, DDX5, ASIC2, HNF1B, COL1A1, HDAC5, HLF, FOXN1, TBX2, SOX9, NUP85, OMG, RARA, SRSF1, KAT7, PSMD11, TAOK1, SPAG9, VMP1, SLC4A1, KANSL1, SMURF2, PSMD3, ATP6V0A1, STAT3, FBXL20, SRCIN1, KCNH4, SSH2, CLTC, EIF4A3, CBX8, CBX4, PIPAK2B, MSI2, KPNB1, IGF2BP1, KLHL10, STATS5, PSME3, MED1, USP32, NEUROD2, UBT, MRC2, GGNBP2, BPTF, FASN, RPTOR, RPI1-105588.7, PPM1E, CBX2, YPEL2, AP2B1, CSNK1D, SUPT6H, PPI19B, LASP1, UBE2O, CASKIN2, ATAD5, NPEPS, SUZ12, FOXJ1, MTMR4, HSF5, CHMP6, MLLT6, RAB11FIP4, NPLOC4, P4HB, FMNL1, HEXIM1, PHF12, TNRC6C, SYNRG, STAT5A, TLK2, IKZF3, SMARCE1, ACACA, PSMD12, NFI, RHOT1, HELZ, CACNA1G, CYTH1, MAP3K3, BECN1, NFEZL1, SP2, GPS1, SPOP, CBX1, CNP, GITI, MED13, C17orf104, DCAF7, TOP2A, TANC2, EFTUD2, GJC1, SEPT9, ERN1, INTS2, CDK12, ATXN7L3, DNACJ7, TOBI, LUC7L3, MYO18A, CDC27, SOCS7, DDX42, MSL1, VEZF1, PITPNCl, MBTD1, PRKARIA, UNK, LSM12, GPATCH8, NMT1
LEAT_EEBB_95	F	6	39	LEAT	PA		19:0-59128983	19	Gain	59.13	0.07	5		ACTN4, AP2A1, ATP1A3, BRD4, BRSK1, CAI1, CACNA1A, CACTIN, CADM4, CALM3, CARM1, CHERP, CLPTM1, DAZAP1, DCAF15, DNMT1, DYRK1B, EGLN2, FZRI, GRIN2D, GSK3A, IRF2BP1, KHRSR, LMTK3, MAU4K1, MAST1, MAU2, NACCI1, NOVA2, NUMBL, PIAS4, PPFIA3, PPP2R1A, PPP5C, PRKACA, PRKCG, PRMT1, PRPF31, PRR12, RFX1, SHANK1, SIN3B, SLC8A2, SMARCA4, SPTBN4, SUPTSH, TMEM259, TNPO2, TOMM40, UZAF2, UPFI, XAB2	PPP5C, CD22, MBD3, ANO8, KDM4B, BCL3, REXO1, CDC34, HNRNPL, RELB, SLC17A7, SGTA, FBL, RASIP1, RPL18A, RAB3A, KMT2B, USF2, ERF, GSK3A, SIPA1L3, CADM4, DAZAP1, TSHZ2, C3, VASP, SYMPK, UBA2, TSKS, SUGPI, ABHD8, WDR18, MAST1, PVRL2, SAFB2, MLLT1, ACTN4, NUMBL, TRIM28, ZC3H4, EIF3G, ZNF331, RFX1, DCAF15, CSNK1G2, HPN, CCNE1, UPFI, ELL, MAST3, MARK4, GRIK5, MAP2K2, DPP9, PIAS4, GRIN2D, BRD4, WIZ, NOTCH3, PRKCG, ARID3A, SAE1, ADAMTS10, RPS11, RNF126, NACCI1, CELF5, SHANK1, KIAA0355, RAB8A, CHAF1A, IRF2BP1, RFX2, ZNF296, LTBPA, PRKACA, UZAF2, EEF2, BRSK1, SAMD4B, PRPF31, PPP2R1A, LMNB2, HNRNPM, LENG8, STK11, CARM1, PPFIA3, PIP5K1C, CLPTM1, ARHGFE1, LRRC25, RANBP3, LPHN1, PDE4A, FOSB, AP3D1, DPF1, ZNF536, TMEM259, PTBPI, ATP13A1, PTPRS, XAB2, AP2A1, BABAM1, DNMT1, DDA1, CACNA1A, GATAD2A, SCAFI, LONPI, TTYH1, SIN3B, DNMT2, STRN4, HNRNPLUL1, MAU2, FZRI, GLTSCR1, NFIX, MAP2K7, KHRSR, DOT1L, ARHGAP35, CNOT3, ELAVL1, PPP6R1, PRR12, TNPO2, TOMM40, CACTIN, SMARCA4, PRKD2, CAMSAP3, ILF3, PRMT1, EPS15L1, ZNF146, UNCI3A, POU2F2, APC2, EVI5L, HOMER3, ATP1A3, CHERP, RPL18, C1C, LRFN3, SAFB, MAU4K1, DKFZP761J1410, DYRK1B, FCHO1, RUVBL2, MYO9B, RPS5, NUP62, SNRNP70, SUPT5H, MYH14, SUGP2, VAV1, NPAS1, FKBP8
LEAT_EEBB_102	F	5	11	LEAT	PA		17:52121998-81195210	17q22-25.3	Gain	29.07	0.23	1		CLTC, MTMR4, UNK	APPBP2, RPS6KB1, DDX5, HLF, TBX2, SOX9, NUP85, SRSF1, VMP1, SMURF2, CLTC, EIF4A3, CBX8, CBX4, MSI2, USP32, MRC2, BPTF, FASN, RPTOR, RPI1-105588.7, PPM1E, CBX2, YPEL2, CSNK1D, UBE2O, CASKIN2, FOXJ1, MTMR4, HSF5, CHMP6, NPLOC4, P4HB, TNRC6C, TLK2, PSMD12, HELZ, CYTH1, MAP3K3, GPS1, MED13, DCAF7, TANC2, SEPT9, ERN1, INTS2, DDX42, VEZF1, PITPNCl, PRKARIA, UNK
LEAT_EEBB_56	M	11	15	LEAT	PXA		5:0-180915260	5	Gain	180.92	0.10	11		ANKHD1, CAMK2A, CANX, CSNK1A1, CYFIP2, DDX46, ETF1, HDAC3, HNRNPH1, IK, KDM3B, LARP1, NR2F1, PPP2CA, PURA, RBM22, TCEG1, UNCSA, ZMAT2	LCP2, YTHDC2, TRIPI3, RBM22, SKIV2L2, PAPP7, LOX, LNPEP, NUP155, NR3C1, ELL2, IRF1, ADAMTS2, ZSWIM6, PDLIM4, NDFIP1, AP3B1, FST, DOCK2, NDST1, PDGFRB, FLT4, FAF2, SLC12A2, NNT, FGF10, PDE8B, SLC9A3, SOX30, ZFR, CDH6, VCAN, CPEB4, FBXW11, SLC1A3, ARDC3, RBM27, JAKMIP2, VDAC1, AFF4, SLC6A3, MARCH6, SKP2, PLK2, RASA1, MEGF10, YIPF5, ARHGAP26, ZMAT2, CCT5, NIPBL, CHD1, PCDH1, HMGR, PCDHAC2, DBN1, MAMLI1, KIAA0947, TCEG1, MAP1B, UTP15, RARGE6, NPML1, CREBRF, ANKHD1, HSPA9, PTGER4, CTNNA1, HCN1, GPRIN1, CTNND2, HSPA4, ZNF608, PCDHGC4, PAIP1, PVWVP2A, KLHL3, TERT, DMXL1, EBF1, KDM3B, TRIM41, SSBP2, HMGCS1, SNX18, NKX2-5, UNCSA, PURA, EFNA5, RGS7BP, HOMER1, LARP1, PPP2R2B, TNPO1, ADCY2, PDE4D, DPYSL3, SEMA6A, TRIO, DDX46, HNRNPH1, RICTOR, ZFR1, NRG2, KIF3A, SNX2, ADAMTS6, MIER3, IL6ST, PRLR, MTMR12, FAM169A, DRD1, SYNPO, FBXO38, MATR3, CDC23, CSNK1G3, JMY, CAMK2A,

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
															DIAPH1, UBE2D2, MAP3K1, KIF2A, FCHO2, PDZD2, NSD1, MGAT1, APC, PPP2CA, TCOF1, DDX4, ERBB2IP, KCTD16, FBN2, ZNF131, FNIPI, DROSHA, KCNN2, GNB2L1, EXOC3, CTC-432M15.3, FAM193B, CSNK1A1, RAI14, TENM2, GRIA1, RNF145, SLIT3, PIK3R1, CYFIP2, ANKHD1-EIF4EBP3, SCAMPI1, FBXL17, SMAD5
LEAT_EEBB_56	M	11	15	LEAT	PXA		7:0-65796278	7p22.3-q11.21	Gain	65.80	0.11	1		CAMK2B, OGDH, RAC1	RALA, HOXA11, CDK13, ITGB8, SP4, OGDH, PSMA2, AHR, INHBA, IGF2BP3, TTYH3, GNA12, EGFR, CCT6A, ADCY1, KBTBD2, USP42, ZMIZ2, ELMO1, ACTB, VWC2, RAPGEF5, C7orf26, HNRNPA2B1, EIF3B, HECW1, GLI3, HERPUD2, HOXA3, CARD11, GRB10, TNS3, SEPT7, TBX20, THSD7A, ELFN1, ETV1, TNRC18, IKZF1, HDAC9
LEAT_EEBB_56	M	11	15	LEAT	PXA		7:65796279-159138663	7q	Loss	93.34	0.24	1	RHEB, BRAF	AGAP3, CDKS, CUL1, EZH2, PSMC2, SLC4A2	ARF5, HGF, NAMPT, STX1A, CLIP2, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, NYAP1, TSC22D4, ACHE, GNB2, COPS6, CCDC132, YWHAG, MEPE, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, PCLO, LIMK1, HIP1, BAZ1B, AUTS2, TRIM24, UBE3C, MKLN1, MAGI2, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, CAPZA2, CALD1, DNAJC2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, AGAP3, RBM33, PAXIP1, HIPK2, FOXP2, NCPAG2, ATXN17L1, KIAA1549, RELN, PSMC2, DOCK4, CBLL1, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
LEAT_EEBB_56	M	11	15	LEAT	PXA		10:0-135534747	10	Gain	135.53	0.12	3	PTEN	LDB1, PPP3CB, TRIM8, ZSWIM8	PSD, TDRD1, KIF11, MAP3K8, EPC1, MTPAP, NRPI, HNRNPH3, CCAR1, BTAF1, CPEB3, SLIT1, ALB1M1, PPRC1, ARID5B, DOCK1, ANK3, DIP2C, C10orf12, NODAL, KAT6B, HECTD2, WAPAL, KIF5B, TRIM8, MLLT10, LARP4B, CAMK2G, SEPHS1, GRID1, FAM208B, PDZD8, ZMIZ1, PCGF5, PIK3AP1, SEC24C, TAF3, SORCS1, NKX2-3, HELLS, DDX21, WAC, ATRNLI, RET, SH3PX2A, ADD3, UPF2, FRMD4A, ZRANB1, MCM8, GTPBP4, LRRTM3, MGEA5, ZEB1, SGM5, SMC3, SFMBT2, INP5A, EBF3, TIAL1, EIF3A, CACUL1, HSPA12A, FAM160B1, SHOC2, SLK, TAF5, CNM2, SUFU, ACTR1A, NFKB2, SCD, CHUK, LCOR, TM95F3, LGI1, ZCCHC24, DLG5, ZNF503, H2AFY2, TET1, BICC1, IPMK, PRKG1, MAPK8, PARD3, FAM171A1, CAMK1D, PPP3CB, PSAP, HERC4, CDK1, RASGEF1A, ITGB1, ARHGAP21, ZMYND11, ZSWIM8, JMJD1C, HK1, KCNMA1, P4HA1, LDB1, TSPAN14, HNRNPF, RBM17, CELF2, FGFR2, CCNJ, KLF6, CUL2, TCF7L2, EMX2
LEAT_EEBB_56	M	11	15	LEAT	PXA		12:0-133851895	12	Gain	133.85	0.12	8	KRAS, PTPN11	ANKRD52, ATP2B1, CHD4, CS, DDX23, GCN1L1, HECTD4, LRP1, NAA25, NAB2, PAZG4, PLXNC1, RARG, SCN8A, SETD1B, SMARCC2, SMARCD1, STAT2, USP5	SENPI1, HDAC7, FOXJ2, TNFRSF1A, CBX5, SART3, ASIC1, CSRN2P, CNOT2, USPS, HCF2C, RAB35, LRP1, SLC38A2, MS11, HNF1A, TBX3, GDF11, ESPL1, KCNH3, KCNM8A, PLXNC1, SLC41A2, WBP11, ATF7IP, NAP1L1, ASUN, CDK17, CCND2, LRP6, CORO1C, LPCAT3, CUX2, LHX5, NAA25, ATP5B, PTGES3, EIF4B, COP21, CLSTN3, SMARCC2, ANKRD52, SETD1B, DUSP6, USP15, BTBD11, EPS8, MED13L, NCKAP1L, ITGA5, FRS2, CCT2, TMEM132B, HSP90B1, STAT6, GCN1L1, KMT2D, TUBA1A, NBP2, COL2A1, NOP2, PRMT8, DHX37, TBX5, STAT2, WNK1, MLXIP, PTPN22, ULK1, EEA1, E2F7, SPI, FBXO21, RSR2, XPOT, ARID2, PTPR8, TUBA1B, SARNP, ZCCHC8, FAM60A, NOS1, KSR2, PPP1CC, HNRNPA1, NTN4, DYRK2, RNF41, R3HDM2, CACNA1C, CS, PTPN11, SPPL3, SCN8A, SRGAP1, GIT2, MBD6, ATN1, CHD4, DNAJC14, RFX4, PCBP2, SCAF11, KDM2B, ATXN2, ZFC3H1, NABP2, COL2A1, NOP2, PRMT8, STK38L, DENND5B, EP400, CIT, TAOK3, RIC8B, MON2, SMARCD1, ETV6, ZNF384, CCDC64, LARP4, SLC38A1, AEBP2, KDM5A, SETD8, RASSF8, NCOR2, ATF7, SBN01, TMEM132D, RPL6, RARG, PAN2, ZDHHC17, ATP2B1, PLEKHAS, DCTN2, CPSF6, NELL2, PPP1R12A, SOX5, SLC4A8, KIF5A, PRICKLE1, PTPN6, MDM2, NAV3, ATP2A2, CLIP1, ACVY1B, SFSWAP, RAN, PHC1, CAND1, MAP3K12, AGAP2, ANKS1B, PRPF40B, PPIA2, HECTD4, BAZ2A, SPATS2, GRIN2B
LEAT_EEBB_56	M	11	15	LEAT	PXA		15:24148457-102531392	15q	Gain	78.38	0.12	3		RTFI, SIN3A	AQR, MGA, CSK, PIAS1, DLL4, SNRPA1, ABHD17C, IREB2, CTDSP2, THBS1, KIF23, ADAM10, HERC2, AP3B2, SNX1, RAB11A, HCN4, TTBK2, IGF1R, ZNF710, FURIN, IQGAP1, UBR1, SPRED1, COPS2, LEO1, HDGFRP3, ZNF592, CLPX, MAP1A, PDI3A, PYGO1, CSNK1G1, ARNT2, OTUD7A, RPL4, FBXO22, RASGRF1, GABRB3, SEMA6D, FBN1, ZNF609, MORF4L1, ASB7, NEO1, DPP8, NPTN, BNC1, TJPI1, CASC5, MEF2A, LINGO1, MYO9A, ZNF770, NTRK3, AKAP13, INO80, ARIH1, USP3, SLTM, TP53BP1, RYR3, RTF1, NR2F2, CHD2, SIN3A, UBE3A, MYO5A, BAHD1, FRMD5, RASGRF1, RFX7, USP8, ACAN, DENND4A, HERC1, ANP32A, DMXL2, TLE3, RNF111, MEIS2, TLN2, CPEB1, PARG6
LEAT_EEBB_56	M	11	15	LEAT	PXA		16:0-90354753	16	Gain	90.35	0.12	3	NPRL3, TSC2	CNOT1, CTCF, EDC4, FBXL19, MAPK8IP3, MAZ, NUDT21, SF3B3, STX1B, UBE21, USP7	CACNG3, TFAP4, GLG1, STX1B, C16orf70, CORO1A, NUTF2, USP10, TSC2, CAPN15, TOX3, MAPK8IP3, SALL1, FUS, VPS4A, DYNCL1L2, XYLT1, RBL2, PKD1, RAB11FIP3, CREBBP, FOXF1, GNAO1, CSNK2A2, SRCAP, SETD1A, ZNF629, CTCF, NKD1, ZFH3, CDH11, ZCCHC14, IRF8, JPH3, ATP6V0D1, ADCY9, VPS35, ZNF19, PLK1, NUDT21, ZC3H18, ANKRD11, SF3B3, PRKCB, XPO6, TAOK2, RBOFOX1, TUBB3, DNAJA2, CNOT1, RANBP10, MKL2, RBBP6, GLYR1, RNF40, C16orf72, IL21R, MTSSL1, PDPK1, CASKIN1, USP7, NFATC3, UBE21, FBR5, GTF3C1, PLCG2, FBXL19, RPL13, BANP, APIG1, BRD7, ATXN2L, TNRC6A, MYH11, KIAA0430, ZC3H7A, GRIN2A, UBN1, FBXL16, TBC1D10B, C8FB, BCAR1, FAM65A, CYLD, NFAT5, GSPT1, PAPP5, HERPUDI1, SMGI, CMIP, RSPRY1, ZNF423, RNPS1, CHD9, CDH8, TERF2
LEAT_EEBB_56	M	11	15	LEAT	PXA		20:0-63025520	20	Gain	63.03	0.12	10		CENPB, TOP1	SALL4, CSTFI, EEF1A2, CSNK2A1, CHMP4B, SOGA1, PLAGL2, TAF4, LAMA5, ADRM1, RBM39, JAG1, SNAP25, PCSK2, ITCH, RALGAPB, ATRN, CSE1L, GMEB2, DIDO1, LSM14B, NCOA5, PPP1R16B, TPX2, BCL2L1, MYT1, LZTS3, SSI18L1, TCF5L, GGT7, PLCB1, EPB41L1, ATP9A, PMPAP1, EZF1, CBFA2T2, SYCP2, KCNQ2, C20orf112, TOP1, YTHDF1, MRGPB, PSMA7, PHACTR3, ZNF217, TSHZ2, B4GALT5, KCNB1, STAU1, ARFGF2, PREX1, NCOA3, PCIF1, YWHAB, TPRT, CHD6, SRC, DLGAP4, PHF20, NCOA6, EIF2S2, MAPRE1, POFUT1, PAK7, BMP2, PCNA, CENPB, PTPRA, SNPH, RGS19, RAE1, NFATC2, ADNP, ZNFX1, TM95F4, SPATA2, ZNF512B, SLC12A5, ZMYND8
LEAT_EEBB_56	M	11	15	LEAT	PXA		21:15463956-48129895	21q	Gain	32.67	0.14	1		HUNK, SIK1, USP25, CCT8, TIAM1, SCAF4, IFNGR2, PKNOX1, UZAF1, TRAPP10, ZBTB21, PAXBP1, BRWD1, GABPA, SON, ETS2, COL6A1, SLC5A3, ITSNI, AGPAT3, DYRK1A, NRPI, DSCAM, MORC3, ERG, SYNJ1	
LEAT_CCF_37	M	0.833	7.29	LEAT	SEGA	TSC	7:0-159138663	7	Gain	159.14	0.14	18	RHEB, BRAF	AGAP3, CAMK2B, CDKS, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNA12, EGFR, CCT6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, COPS6, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MEPE, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, VWC2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAJC2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3,

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
															HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1, KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBL1, HDAC9, FEZF1, FAMI31B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFP3, CNOT4
LEAT_CCF_37	M	0.833	7.29	LEAT	SEGA	TSC	16:0-9806375	16p13.3	CNN-LOH	9.81	0.03	4	NPRL3, TSC2	MAPK8IP3, UBE2I, USP7	TFAP4, TSC2, CAPN15, MAPK8IP3, PKD1, RAB11FIP3, CREBBP, ADCY9, RFXO1, GLYRI, C16orf72, PDPK1, CASKIN1, USP7, UBE2I, UBN1, FBXL16, RNPS1
LEAT_EEBB_17	F	0.0769 23077	9	LEAT	SEGA	TSC	16:0-16081737	16p13.3	CNN-LOH	16.08	0.09	4	NPRL3, TSC2	MAPK8IP3, UBE2I, USP7	TFAP4, TSC2, CAPN15, MAPK8IP3, PKD1, RAB11FIP3, CREBBP, ADCY9, RFXO1, MKL2, GLYRI, C16orf72, PDPK1, CASKIN1, USP7, UBE2I, MYH11, KIAA0430, ZC3H7A, GRIN2A, UBN1, FBXL16, GSPT1, RNPS1
MCD_CCF_62	F	5	8.33	MCD	FCD 2a	Hyaline astrocytic inclusions	1:146523045-249250621	1q	Gain	102.73	0.06	2	AKT3	AKT3, ARF1, CACNA1E, CELF3, CLK2, COPA, DENND4B, DHX9, ILF2, INTS3, LMNA, MEF2D, NDUFS2, PEAI5, PRPF3, RBBP5, SF3B4, TOMM40L, TRIM46, UBE2Q1, USP21, WDR26	CHRM3, TAF5L, LAMC1, SUCO, ARID4B, RBBP5, ILDR2, PRCC, SF3B4, SETDB1, POGZ, KCNN3, HNRNP1, WNT3A, NMNAT2, UBE2Q1, ZNF281, ZNF496, NCSTN, SPRTN, CCT3, RGL1, SHE, GLUL, RORC, INTS3, FMN2, ZNF687, PRPF3, AHCTF1, LIN9, TRIM46, PRRC2C, NFASC, LMX1A, MEF2D, ARNT, ZBTB18, CAMSAP2, RAB3GAP2, KIRREL, ELF3, EXOC8, CLK2, DENND4B, ARHGFE2, BRINP2, IPO9, HORMAD1, ASTN1, ILF2, AKT3, RYR2, ACTN2, HEATR1, SIPA1L2, EGLN1, TRIM67, CDC42BP2, ENAH, FBXO28, SLC30A10, TGF2, PROX1, LPGAT1, SLC30A1, IRF6, MAPKAPK2, NUCKS1, MDM4, PIK3C2B, SOX13, SYT2, NAV1, LHX9, CFH, CDC73, PTGS2, TPR, IVNS1ABP, SWT1, RNF2, DHX9, CACNA1E, XPR1, CEP350, RASAL2, RFWO2, TNR, RC3H1, SERPINC1, ZBTB37, ATP1B1, TIPRL, POU2F1, DEDD, ARHGAP30, COPA, DCAF8, ETV3, ARHGFE1, LMNA, UBQLN4, KIAA0907, RUSC1, PYGO2, CRTC2, GATAD2B, SNX27, PH4K, PSM4, MCL1, RPRD2, LYST, ASH1L, KIF26B, WDR26, RCOR3, PBX1, SYT14, C1orf226, UBAP2L, ITPKB, GON4L, PTPRC, TDRD5, SMG7, MEX3A, ZC3H11A
MCD_CCF_62	F	5	8.33	MCD	FCD 2a	Hyaline astrocytic inclusions	16:47304567-90354753	16q12.1-24.3	Loss	43.05	0.06	1		CNOT1, CTCF, EDC4, NUDT21, SF3B3	GLG1, C16orf70, NUTF2, USP10, TOX3, SALL1, VPS4A, DYNCL1L2, RBL2, FOXF1, GNAO1, CSNK2A2, CTCF, NKD1, ZFH3, CDH11, ZCCHC14, IRF8, JPH3, ATP6VD1, ZNF319, NUDT21, ZC3H18, ANKRD11, SF3B3, TUBB3, CNOT1, RANBP10, MTSS1L, NFATC3, PLCG2, RPL13, BANP, APIG1, BRD7, CBF6, BCAR1, FAM65A, CYLD, NFAT5, PAPD5, HERPUD1, CMIP, RSPRY1, ZNF423, CHD9, CDH8, TERF2
MCD_EEBB_68	M	6	43	MCD	FCD 2a		22:18009909-49085205	22q	CNN-LOH	31.08	0.04	5	DEPDC5	CSNK1E, PATZ1, SF3A1	RTN4R, SF3A1, MAPK1, MORC2, RPL3, MYH9, EIF3D, RBX1, GNAZ, RAC2, CELSRI, SMARCB1, UFD1L, MED15, HIRA, EP300, PATZ1, KCNJ4, BCR, PHF21B, SPECC1L, PRR14L, FBLN1, SULT4A1, PITPNB, NF2, GGA1, DGCR8, ZC3H7B, LARGE, MKL1, APIB1, XRCC6, TCF20, PIM3, SCUBE1, SBF1, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1I, ELFN2, MICAL3, HIC2, TNRC6B, ZNRF3
MCD_EEBB_75	M	2.8	12	MCD	FCD 2a		22:19183787-51304566	22q	CNN-LOH	32.12	0.04	5	DEPDC5	CSNK1E, PATZ1, PLXNB2, SF3A1	RTN4R, SF3A1, MAPK1, MORC2, RPL3, MYH9, EIF3D, RBX1, BRD1, GNAZ, RAC2, CELSRI, SHANK3, SMARCB1, UFD1L, MED15, HIRA, EP300, PATZ1, KCNJ4, BCR, PHF21B, SPECC1L, PRR14L, FBLN1, MAPK8IP2, SULT4A1, PITPNB, NF2, GGA1, DGCR8, ZC3H7B, LARGE, MKL1, APIB1, XRCC6, TCF20, PIM3, SCUBE1, SBF1, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1I, ELFN2, GRAMD4, CBX6, EWSR1, RFXO2, HIC2, PLXNB2, TNRC6B, ZNRF3
MCD_EEBB_94	F	0.25	3	MCD	FCD 2a		22:16000000-51304566	22q	CNN-LOH	35.30	0.04	5	DEPDC5	CSNK1E, PATZ1, PLXNB2, SF3A1	RTN4R, SF3A1, MAPK1, MORC2, RPL3, MYH9, EIF3D, RBX1, BRD1, GNAZ, RAC2, CELSRI, SHANK3, SMARCB1, UFD1L, MED15, HIRA, EP300, PATZ1, KCNJ4, BCR, PHF21B, SPECC1L, PRR14L, FBLN1, MAPK8IP2, SULT4A1, PITPNB, NF2, GGA1, DGCR8, ZC3H7B, LARGE, MKL1, APIB1, XRCC6, TCF20, PIM3, SCUBE1, SBF1, DEPDC5, CSNK1E, SOX10, EIF4ENIF1, MTMR3, CACNA1I, ELFN2, GRAMD4, CBX6, EWSR1, RFXO2, MICAL3, HIC2, PLXNB2, TNRC6B, ZNRF3
MCD_EEBB_110	M	0.5	7.5	MCD	FCD 2a	Hyaline astrocytic inclusions	1:145723739-249250621	1q	Gain	103.53	0.08	2	AKT3	AKT3, ARF1, CACNA1E, CELF3, CLK2, COPA, DENND4B, DHX9, ILF2, INTS3, LMNA, MEF2D, NDUFS2, PEAI5, PRPF3, RBBP5, SF3B4, TOMM40L, TRIM46, UBE2Q1, USP21, WDR26	CHRM3, TAF5L, LAMC1, SUCO, ARID4B, RBBP5, ILDR2, PRCC, SF3B4, SETDB1, POGZ, KCNN3, HNRNP1, WNT3A, NMNAT2, UBE2Q1, ZNF281, ZNF496, NCSTN, SPRTN, CCT3, RGL1, SHE, GLUL, RORC, INTS3, FMN2, ZNF687, PRPF3, AHCTF1, LIN9, TRIM46, PRRC2C, NFASC, LMX1A, MEF2D, ARNT, ZBTB18, CAMSAP2, RAB3GAP2, KIRREL, ELF3, EXOC8, CLK2, DENND4B, ARHGFE2, BRINP2, IPO9, HORMAD1, ASTN1, ILF2, AKT3, RYR2, ACTN2, HEATR1, SIPA1L2, EGLN1, TRIM67, CDC42BP2, ENAH, FBXO28, SLC30A10, TGF2, PROX1, LPGAT1, SLC30A1, IRF6, MAPKAPK2, NUCKS1, MDM4, PIK3C2B, SOX13, SYT2, NAV1, LHX9, CFH, CDC73, PTGS2, TPR, IVNS1ABP, SWT1, RNF2, DHX9, CACNA1E, XPR1, CEP350, RASAL2, RFWO2, TNR, RC3H1, SERPINC1, ZBTB37, ATP1B1, TIPRL, POU2F1, DEDD, ARHGAP30, COPA, DCAF8, ETV3, ARHGFE1, LMNA, UBQLN4, KIAA0907, RUSC1, PYGO2, CRTC2, GATAD2B, SNX27, PH4K, PSM4, MCL1, RPRD2, LYST, ASH1L, KIF26B, WDR26, RCOR3, PBX1, SYT14, C1orf226, UBAP2L, ITPKB, GON4L, PTPRC, TDRD5, SMG7, MEX3A, ZC3H11A
MCD_CCF_48	F	7	26.97	MCD	FCD 2b		9:71034203-141213431	9q21.11-34.3	CNN-LOH	70.18	0.09	1	TSC1	ABCA2, DNMI1, GABBR2, GRIN1, NOTCH1, PHF19, SCAI, SET, SPTANI, STXBPI, WDR5	SETX, GDA, TRAF2, OLFM1, LRRC8A, KIAA0368, RALGPS1, DAB2IP, GABBR2, ERP44, BRINP1, MAPKAP1, FAMI120A, ZNF462, NOTCH1, SMC2, GNAQ, ZNF618, ZER1, ALDH1A1, WNK2, TSC1, ZMYND19, BRD3, ZNF483, SEC16A, RPL7A, ANAPC2, PTCH1, ANP32B, ABCA2, COL27A1, BICD2, PRRC2B, RAD23B, WDR5, PHF2, NUP214, ASTN2, NAA35, CACNA1B, GRIN1, RABF1, COL5A1, RALGDS, RARGE1, ABL1, NUP188, SET, SPTANI, DNMI1, ENG, STXBPI, ZBTB34, ZBTB43, SCAI, NR5A1, LHX2, DENND1A, RHBGAP1, RC3H2, RAB14, PHF19, MEGF9, PRPF4, UGCG, EPB41L4B, KLF4, SLC44A1, TEX10, NCBP1, CDC14B, SYK, SPIN1, ZCCHC6, NTRK2, HNRNP, UBQLN1, TLE1, TLE4, RORB, CAMSAP1, NTNG2, PPP2R4, GAPVD1, LHX6, SVEP1, DAPK1, GOLGA2, STRBP, SEMA4D, EHMT1, RXRA, NR6A1, FBXW2
MCD_CCF_48	F	7	26.97	MCD	FCD 2b		16:0-3367061	16p13.3	CNN-LOH	3.37	0.05	4	NPRL3, TSC2	MAPK8IP3, UBE2I	TSC2, CAPN15, MAPK8IP3, PKD1, RAB11FIP3, PDPK1, CASKIN1, UBE2I, FBXL16, RNPS1
MCD_CCF_90	F	0.67	2.92	MCD	FCD 2b		7:0-159138663	7	Gain	159.14	0.05	18	RHEB, BRAF	AGAP3, CAMK2B, CDK5, CUL1, EZH2, OGDH, PSMC2, RAC1, SLC4A2	ARF5, RALA, HOXA11, CDK13, HGF, NAMPT, ITGB8, SP4, OGDH, STX1A, PSMA2, CLIP2, AHR, INHBA, ZNF777, PTPN12, LRRC4, MKRN1, ACTR3B, IGF2BP3, TTYH3, KCNH2, RHEB, KMT2C, SEMA3A, ST7, PRKAR2B, DBF4, CDK6, ANKIB1, GNAI2, EGBF, CTF6A, NUP205, PRKAG2, DGKI, BRAF, C7orf60, SHH, COL1A2, LMTK2, ADCY1, NYAP1, TSC22D4, ACHE, GNB2, CYP26, KBTBD2, CCDC132, USP42, YWHAG, ZMIZ2, MECP2, ELMO1, KMT2E, ING3, MET, EZH2, ZKSCAN1, GTF2I, AHCYL2, CUL1, FLNC, ACTB, PCLO, LIMK1, HIP1, BAZ1B, YWCC2, AUTS2, TRIM24, RAPGEF5, C7orf26, UBE3C, MKLN1, MAGI2, HNRNPA2B1, SND1, CACNA2D1, PLXNA4, TRRAP, CUX1, EIF3B, CAPZA2, CALD1, DNAAJ2, NRF1, ZNF800, PTPRZ1, SRPK2, DMTF1, HECW1, GLI3, HERPUD2, HOXA3, CARD11, AGAP3, GRB10, TNS3, SEPT7, RBM33, PAXIP1, HIPK2, TBX20, FOXP2, NCAPG2, ATXN7L1,

Sample	Sex	Age at Onset	Age at Surgery	Lesion Group	Pathology	Additional Findings	Variant Position (hg19)	Chromosomal Region	Variant Type	CNV size (Mbp)	CNV Allelic Fraction	Samples with CNV	Included LFE Genes	Included Triplosensitive Genes	Included Haploinsufficient Genes
															KIAA1549, THSD7A, ELFN1, RELN, ETV1, TNRC18, PSMC2, DOCK4, IKZF1, CBLL1, HDAC9, FEZF1, FAM131B, CADPS2, GTF2IRD1, UBN2, SLC4A2, LHFPL3, CNOT4
MCD_EEBB_104	F	NA	15	MCD	FCD 2b		4:93918343-191154276	4q22.2-35.2	CNN-LOH	97.24	0.02	1		ABCE1, PPP3CA, SMARCA5	NFKB1, RAPGEF2, FNIP2, CENPE, LEF1, SEC24B, CCNA2, NAF1, RPS3A, GPM6A, FBXW7, GRID2, SMARCA5, HMGB2, GRIA2, NAA15, HHIP, ABCE1, DCLK2, PITX2, EDNRA, TRIM2, RAPIGDS1, CLCN3, ANK2, NR3C2, SMARCA1, ZNF827, ELF2, FAT4, ELOVL6, PPP3CA, CPE, KIAA0922, BMPR1B, OTUD4, PLRG1, PDGFC, ANKRD50, CDKN2AIP, MAML3, TENM3, KLHL2, SMAD1
MCD_CCF_71	F	0.83	1.82	MCD	cMCD	NH	1:203644628-234525940	1q32.1-42.2	Gain	30.88	0.06	1		ARF1, RBBP5, WDR26	TAF5L, RBBP5, WNT3A, SPRTN, LIN9, NFASC, RAB3GAP2, EXOC8, SIPA1L2, EGLN1, TRIM67, CDC42BPA, ENAH, FBXO28, SLC30A10, TGFB2, PROX1, LPGAT1, SLC30A1, IRF6, MAPKAPK2, NUCKS1, MDM4, PIK3C2B, SOX13, WDR26, RCOR3, SYTI4, ITPKB, ZC3H11A
MCD_CCF_94	F	0.0082	0.37	MCD	cMCD	PMG / FCD 2a / FCD 1a	10:75324903-135534747	10q22.2-26.3	CNN-LOH	60.21	0.15	1	PTEN	LDB1, TRIM8, ZSWIM8	PSD, TDRD1, KIF11, BTAF1, CPEB3, SLIT1, ABLIM1, PPRC1, DOCK1, C10orf12, KAT6B, HECTD2, WAPAL, TRIM8, CAMK2G, GRID1, PDZD8, ZMIZ1, PCGF5, PIK3API, SEC24C, SORCS1, NKX2-3, HELLS, ATRNL1, SH3PXD2A, ADD3, ZRANB1, MCMBP, MGEA5, SMC3, INPP5A, EBF3, TIAL1, EIF3A, CACUL1, HSPA12A, FAM160B1, SHOC2, SLK, TAF5, CNNM2, SUFU, ACTR1A, NFKB2, SCD, CHUK, LCOR, TM9SF3, LGI1, ZCCHC24, DLG5, ZNF503, ZSWIM8, KCNMA1, LDB1, TSPAN14, FGFR2, CCNJ, TCF7L2, EMX2
MCD_CCF_104	F	0	0.12	MCD	cMCD	FCD 2b	16:0-12353187	16p13.3	CNN-LOH	12.35	0.04	4	NPRL3, TSC2	MAPK8IP3, UBE21, USP7	TFAP4, TSC2, CAPN15, MAPK8IP3, PKD1, RAB11FIP3, CREBBP, ADCY9, RFXO1, GLYR1, C16orf72, PDPK1, CASKIN1, USP7, UBE21, ZC3H7A, GRIN2A, UBN1, FBXL16, GSPT1, RNPS1
MCD_EEBB_89	M	7	20	MCD	cMCD	FCD 1b	17:28305017-81195210	17q	CNN-LOH	52.89	0.06	2	NFI	ACACA, CACNA1G, CLTC, COL1A1, EFTUD2, EZH1, HDAC5, KAT2A, KPMB1, MBTD1, MTMR4, NFI, PIP4K2B, STAT3, STAT5A, STAT5B, THRA, UBTf, UNK	XYL7, APPBP2, TBX21, PSMB3, RPL19, RPS6KB1, DDX5, ASIC2, HNF1B, COL1A1, HDAC5, HLF, TBX2, SOX9, NUP85, OMG, RARA, SRSF1, KAT7, PSMD11, SPAG9, VMP1, SLC4A1, KANSL1, SMURF2, PSMD3, ATP6V0A1, STAT3, FBXL20, SRCIN1, KCNMB4, CLTC, EIF4A3, CBX8, CBX4, PIP4K2B, MSI2, KPMB1, IGF2BP1, KLHL10, STAT5B, PSME3, MED1, USP32, NEUROD2, UBTf, MRC2, GGNBP2, BPTF, FASN, RPTOR, RPI1-1055B8.7, PPM1E, CBX2, YPEL2, AP2B1, CSNK1D, PPP1R9B, LASP1, UBE2O, CASKIN2, ATAD5, NPEPPS, SUZ12, FOXJ1, MTMR4, HSF5, CHMP6, MLLT6, RAB11FIP4, NPLOC4, P4HB, FMNL1, HEXIM1, TNRC6C, SYNRRG, STAT5A, TLK2, IKZF3, SMARCE1, ACACA, PSMD12, NFI, RHOT1, HELZ, CACNA1G, CYTH1, MAP3K3, BECN1, NFE2L1, SP2, GPS1, SPOB, CBX1, CNP, MED13, C17orf104, DCAF7, TOP2A, TAN2, EFTUD2, GJC1, SEPT9, ERN1, INTS2, CDK12, ATXN7L3, DNAJC7, TOB1, LUC7L3, CDC27, SOCS7, DDX42, MSL1, VEZF1, PITPNC1, MBTD1, PRKARIA, UNK, LSM12, GPATCH8, NMT1

Legend to supplementary table 5: LFE = lesional focal epilepsy, CNV = Copy number variant, LEAT = Low-grade epilepsy-associated tumor, MCD = Malformation of cortical development, HS = Hippocampal sclerosis, AG = Angiocentric Glioma, DNET = Dysembryoplastic neuroepithelial tumor, GG = Ganglioglioma, DGG = Desmoplastic ganglioglioma, IDA = Isomorphous diffuse astrocytoma, PA = Pilocytic astrocytoma, PXA = Pleomorphic xanthoastrocytoma, MVNT = multinodular vacuolated neuro tumor, SEGA = Subependymal giant cell astrocytoma, TSC = Tuberous sclerosis complex, FCD = Focal cortical dysplasia, HME = Hemimegalencephaly, cMCD = complex MCD, PMG = Polymicrogyria, CNN-LOH = Copy number neutral loss of heterozygosity

Supplementary Table 6: Summary of *PTPN11* variant pathogenicity evaluation according to the ACMG guidelines

Sample	Lesion Group	Pathology	<i>PTPN11</i> Variant	ACMG Strong Evidence	ACMG Moderate Evidence	ACMG Supporting Evidence	ACMG Variant Classification
HS_EEBB_41	HS	HS Type I	p.S502L	PS1	PM2	PP2, PP3	Likely Pathogenic
LEAT_EEBB_10	LEAT	Ganglioglioma	p.E76K	PS1, PS4	PM1, PM2	PP2, PP3	Pathogenic
LEAT_EEBB_15	LEAT	Ganglioglioma	p.D61N	PS1, PS4	PM2	PP2, PP3	Pathogenic
			p.E139D	PS1, PS4	PM2	PP2, PP3	Pathogenic
LEAT_CCF_6	LEAT	DNET	p.T507K	PS1, PS4	PM2	PP2, PP3	Pathogenic
LEAT_EEBB_49	LEAT	DNET	p.A72V	PS4	PM1, PM2, PM5	PP2, PP3	Pathogenic
LEAT_EEBB_81	LEAT	DNET	p.A72G	PS1, PS4	PM1, PM2	PP2, PP3	Pathogenic
LEAT_EEBB_17	LEAT	TSC (SEGA)	p.D61H	PS1, PS4	PM2	PP2, PP3	Pathogenic

Legend to Supplementary Table 6: ACMG = American College of Medical Genetics and Genomics, HS = Hippocampal sclerosis, LEAT = Low-grade epilepsy-associated neuroepithelial tumor, DNET = Dysembryoplastic neuroepithelial tumor, TSC = Tuberous sclerosis complex, SEGA = Subependymal giant cell astrocytoma, PS1 = Same amino acid change as an established pathogenic variant, PS4 = statistically significant association with pathology, PM1 = Mutational hot spot or well-studied functional domain, PM2 = Absent in population databases, PM5 = Novel missense change at an amino acid residue where a different pathogenic missense change has been seen before, PP2 = Missense in gene with low rate of benign missense variants, PP3 = Computational evidence supports a deleterious effect on the gene / gene product