

**Supplementary Table 1: Characteristics of the AT/RT control group.** Characteristics of 30 patients harboring AT/RT that were employed for as controls for clustering analyses and molecular profiling (WT: wildtype).

#ID	Molecular subgroup (Cancer Cell 2016 PMID 26923874)	Age at diagnosis (months)	Sex	Tumor location	Copy number alterations on analysis of 450k data	SMARCB1 region FISH	SMARCB1 region MLPA	SMARCB1 sequencing	SMARCB1 germ line status
32	TYR	10	female	supratentorial	22q deletion	heterozygous deletion	not available	c.511insC (Exon 5)	WT
54	TYR	84	female	supratentorial	22q deletion	not available	not available	not available	WT
57	TYR	17	male	infratentorial	22q deletion	heterozygous deletion	not available	not available	not available
66	TYR	3	female	infratentorial	22q deletion	heterozygous deletion	not available	c.825_838del14bp (Exon 7)	c.825_838del14bp (Exon 7)
79	TYR	6	male	supratentorial	22q deletion	heterozygous deletion	delTBX1_NIPSNAP1 + delEx6 SMARCB1	WT	delEx6
81	TYR	20	female	infratentorial	22q deletion	heterozygous deletion	delTBX1_NIPSNAP1 + delEx1-7 SMARCB1	WT	not available
108	TYR	105	male	supratentorial	22q deletion	heterozygous deletion	heterozygous deletion (delGNAZ_SMARCB1)	WT	not available
145	TYR	2	male	infratentorial	22q deletion	heterozygous deletion	heterozygous deletion (delTBX1_NIPSNAP1)	c.472C>T (Exon 4)	WT
165	TYR	19	female	infratentorial	22q deletion	heterozygous deletion	heterozygous deletion (delTBX1_NIPSNAP1)	c.1148delC (Exon 9)	not available
168	TYR	12	male	supratentorial	22q deletion	heterozygous deletion	delPPL2_NIPSNAP1 + delEx8_Ex9 SMARCB1	WT	delEx8_Ex9

#ID	Molecular subgroup (Cancer Cell 2016 PMID 26923874)	Age at diagnosis (months)	Sex	Tumor location	Copy number alterations on analysis 450k data	SMARCB1 region FISH	SMARCB1 region MLPA	SMARCB1 sequencing	SMARCB1 germ line status
21	SHH	24	female	supratentorial	22q deletion	homozygous deletion	not available	not available	not available
61	SHH	12	female	infratentorial	absent	WT	not available	homozygous c.157C>T (Exon 2)	c.157C>T p.R53X (Exon 2).
71	SHH	21	female	infratentorial	absent	homozygous deletion	not available	WT	WT
76	SHH	6	male	infratentorial	absent	WT	heterozygous deletion (delTBX1_SMARCB1)	c.157C>T (Exon 2)	not available
80	SHH	10	male	infratentorial	absent	WT	homozygous deletion (delEx1)	WT	WT

103	SHH	10	female	supratentorial	absent	WT	WT	c.601C>T (Exon 5)	not available
115	SHH	24	male	supratentorial	22q deletion	heterozygous deletion	delSMARCB1 +delEx4-5 SMARCB1	WT	not available
118	SHH	1	female	infratentorial	absent	WT	WT	homozygous c141C>A (Exon 2)	WT
173	SHH	24	female	supratentorial	absent	heterozygous deletion	not available	not available	not available
194	SHH	17	female	supratentorial	22q deletion affecting SMARCB1	heterozygous deletion	not available	not available	not available

#ID	Molecular subgroup (Cancer Cell 2016 PMID 26923874)	Age at diagnosis (months)	Sex	Tumor location	Copy number alterations on analysis 450k data	SMARCB1 region FISH	SMARCB1 region MLPA	SMARCB1 sequencing	SMARCB1 germ line status
25	MYC	4	female	supratentorial	homozygous deletion affecting SMARCB1	no signals	delEx1-9 SMARCB1	WT	not available
43	MYC	23	female	supratentorial	homozygous deletion affecting SMARCB1	heterozygous deletion	not available	WT	not available
59A	MYC	8	male	supratentorial	homozygous deletion affecting SMARCB1	homozygous deletion	not available	WT	WT
60	MYC	9	male	not available	homozygous deletion affecting SMARCB1	homozygous deletion	not available	WT	WT
77	MYC	27	male	supratentorial	homozygous deletion affecting SMARCB1	homozygous deletion	delEx1-9 SMARCB1	WT	WT
104	MYC	36	female	spinal	homozygous deletion affecting SMARCB1	homozygous deletion	delEx1-9 SMARCB1	WT	not available
105	MYC	67	male	supratentorial	homozygous deletion affecting SMARCB1	homozygous deletion	homozygous delEx1-9 SMARCB1	WT	not available
153	MYC	28	female	supratentorial	homozygous deletion affecting SMARCB1	homozygous deletion	delTBX1_NIPSNAP1 + delEx1-9 SMARCB1	WT	not available
157	MYC	23	male	infratentorial	homozygous deletion affecting SMARCB1	homozygous deletion	delGNAZ_SMARCB1 + delEx1-9 SMARCB1	WT	not available
167	MYC	11	female	supratentorial	homozygous deletion affecting SMARCB1	homozygous deletion	homozygous delEx1-9 SMARCB1	WT	WT