

Supplementary Table 01

Supplementary Table 1. Literature review

	Tumor location	Age at diagnosis (years)	Gender	Death	OS (months)	Progression	PFS (months)	FISH MN1	Fusion	Methylation
Lucas <i>et al.</i>	spinal	6	F	1	25	1, local	12	NA	<i>BEND2::EWSR1</i>	AB-MN1
Lucas <i>et al.</i>	frontal, left	6	F	0	90	1, local	74	NA	<i>BEND2::EWSR1</i>	AB-MN1
Lucas <i>et al.</i>	brainstem	20	M	0	1	0	NA	NA	<i>BEND2::EWSR1</i>	AB-MN1
Lucas <i>et al.</i>	frontal, right	26	F	1	117	1, local	34	NA	<i>BEND2::EWSR1</i>	AB-MN1
Smith-Cohn <i>et al.</i>	medullary-cervical	38	M	0	12	0	NA	NA	<i>BEND2::EWSR1</i>	AB-MN1
Tsutsui <i>et al.</i>	T3-T5	36	M	0	12	1, metastasis	12	Disomy	<i>BEND2::EWSR1</i>	AB-MN1
Yamasaki <i>et al.</i>	<i>medullo oblongata</i> to C4	0	M	NA	NA	NA	NA	NA	<i>BEND2::EWSR1</i>	AB-MN1
Rossi <i>et al.</i>	T9-T12	3	F	0	7	0	NA	NA	<i>BEND2::MAMLD1</i>	AB-MN1
Walker <i>et al.</i>	cervical	2	F	0	276	1, local	264	NA	<i>BEND2::MAMLD1</i>	AB-MN1
Cuoco <i>et al.</i>	fronto-insular, left	9	F	NA	NA	NA	NA	NA	<i>BEND2::YAP1</i>	NA
Fudaba <i>et al.</i>	parietal, left	6	F	0	27	0	NA	Rearr.	<i>MN1</i> rearr.	NA
Hirose <i>et al.</i>	occipital lobe	6	F	0	76	0	NA	Rearr.	<i>MN1</i> rearr.	NA
Hirose <i>et al.</i>	left frontal lobe	6	F	0	39	0	NA	Rearr.	<i>MN1</i> rearr.	NA
Hirose <i>et al.</i>	right frontal lobe	18	F	0	6	0	NA	Rearr.	<i>MN1</i> rearr.	NA
Hirose <i>et al.</i>	left frontal lobe	24	F	0	60	0	NA	Rearr.	<i>MN1</i> rearr.	NA
Hirose <i>et al.</i>	left occipital lobe	37	F	0	24	0	NA	Rearr.	<i>MN1</i> rearr.	NA

Lehman <i>et al.</i>	parietal	3	F	NA	NA	NA	NA	Rearr.	MN1 rearr.	AB-MN1
Lehman <i>et al.</i>	parieto-occipital, left	4	F	0	131	NA	NA	Rearr.	MN1 rearr.	NA
Lehman <i>et al.</i>	temporal, left	8	M	0	144	NA	NA	Rearr.	MN1 rearr.	NA
Lehman <i>et al.</i>	fronto-parietal, right	9	F	0	68	NA	NA	Rearr.	MN1 rearr.	AB-MN1
Lehman <i>et al.</i>	fronto-parietal, right	12	F	0	147	1	48	Rearr.	MN1 rearr.	AB-MN1
Lehman <i>et al.</i>	cerebral	12	F	NA	NA	NA	NA	Rearr.	MN1 rearr.	AB-MN1
Lehman <i>et al.</i>	parietal	13	F	NA	NA	NA	NA	Rearr.	MN1 rearr.	AB-MN1
Lehman <i>et al.</i>	parieto-occipital, left	16	F	0	138	0	NA	Rearr.	MN1 rearr.	AB-MN1
Lehman <i>et al.</i>	parietal, left	18	F	0	227	1	24	Rearr.	MN1 rearr.	AB-MN1
Lehman <i>et al.</i>	temporal, left	33	F	0	120	NA	NA	Rearr.	MN1 rearr.	AB-MN1
Mugge <i>et al.</i>	cervico-thoracic	0	M	NA	NA	NA	NA	Rearr.	MN1 rearr.	NA
Panda <i>et al.</i>	C7-T9	3	F	0	3	0	NA	Rearr.	MN1 rearr.	NA
Sari <i>et al.</i>	parietal, left	7	F	0	30	1, metastasis	18	Rearr.	MN1 rearr.	NA
Shin <i>et al.</i>	brainstem	11	M	0	NA	NA	NA	Rearr.	MN1 rearr.	NA
Tauziède-Espariat <i>et al.</i>	temporo-frontal lobe	3	F	0	76	0	NA	Rearr.	MN1 rearr.	AB-MN1
Tauziède-Espariat <i>et al.</i>	frontal lobe	6	F	0	224	0	NA	Rearr.	MN1 rearr.	AB-MN1
Tauziède-Espariat <i>et al.</i>	right frontal lobe	9	M	0	26	0	NA	Rearr.	MN1 rearr.	AB-MN1
Tauziède-Espariat <i>et al.</i>	frontal lobe	11	F	0	80	0	NA	Rearr.	MN1 rearr.	AB-MN1
Tauziède-Espariat <i>et al.</i>	frontal, right	12	F	0	14	1, local	12	Rearr.	MN1 rearr.	AB-MN1
Tauziède-Espariat <i>et al.</i>	fronto-parietal, right	16	F	0	20	0	NA	Rearr.	MN1 rearr.	AB-MN1
Ujihara <i>et al.</i>	frontal, left	24	F	0	156	1, local	144	Rearr.	MN1 rearr.	NA

Wood <i>et al.</i>	right frontal lobe	9	F	0	324	0	NA	Rearr.	MN1 rearr.	AB-MN1
Wood <i>et al.</i>	left parietal lobe	10	F	0	33	0	NA	Rearr.	MN1 rearr.	AB-MN1
Wood <i>et al.</i>	left parietal lobe	31	F	0	12	0	NA	Rearr.	MN1 rearr.	AB-MN1
Wood <i>et al.</i>	left frontal lobe	35	M	1	184	1, multiple	NA	Rearr.	MN1 rearr.	No match
Mhatre <i>et al.</i>	parietal	10	F	0	NA	1	13	Rearr.	MN1 rearr.	NA
Mhatre <i>et al.</i>	parietal	14	F	NA	NA	NA	NA	Rearr.	MN1 rearr.	NA
Mhatre <i>et al.</i>	fronto-parietal	16	F	0	NA	0	0	Rearr.	MN1 rearr.	NA
Mhatre <i>et al.</i>	parietal	23	F	NA	NA	NA	NA	Rearr.	MN1 rearr.	NA
Mhatre <i>et al.</i>	frontal	27	F	0	NA	1	12	Rearr.	MN1 rearr.	NA
Burford <i>et al.</i>	left parietal lobe	6	F	1	120	1	12	NA	MN1::BEND2	NA
Chou <i>et al.</i>	temporo-parietal, left	10	F	0	8	0	NA	NA	MN1::BEND2	AB-MN1
Frederico <i>et al.</i>	fronto-parietal, left	5	F	0	252	1, local	24	NA	MN1::BEND2	AB-MN1
Frederico <i>et al.</i>	fronto-temporal, right	27	F	0	28	0	NA	NA	MN1::BEND2	AB-MN1
Frederico <i>et al.</i>	parieto-occipital, left	33	F	0	34	1, local	7	NA	MN1::BEND2	AB-MN1
Lastowska <i>et al.</i>	parieto-temporal, right	2	F	0	144	0	NA	NA	MN1::BEND2	NA
Lastowska <i>et al.</i>	parietal, right	6	F	0	180	0	NA	NA	MN1::BEND2	NA
Lastowska <i>et al.</i>	frontal, right	9	F	0	204	0	NA	NA	MN1::BEND2	NA
Lastowska <i>et al.</i>	parietal, left	11	F	0	132	0	NA	NA	MN1::BEND2	NA
Price <i>et al.</i>	parietal, left	5	F	0	324	1, local	24	NA	MN1::BEND2	NA
Sturm <i>et al.</i>	occipital lobe	8	F	NA	NA	NA	NA	NA	MN1::BEND2	AB-MN1
Sturm <i>et al.</i>	NA	NA	NA	NA	NA	NA	NA	NA	MN1::BEND2	NA
Sturm <i>et al.</i>	NA	NA	NA	NA	NA	NA	NA	NA	MN1::BEND2	NA
Sun <i>et al.</i>	spinal	NA	NA	NA	NA	NA	NA	Rearr.	MN1::BEND2	NA
Tauziède-Espariat <i>et al.</i>	left occipito-parietal lobe	6	F	1	11	1, local	1	NA	MN1::BEND2	AB-MN1

Tauziède-Espariat <i>et al.</i>	frontal lobe	7	F	1	88	1, local	10	NA	<i>MN1::BEND2</i>	AB-MN1
Tauziède-Espariat <i>et al.</i>	parietal, right	15	F	0	28	1, local	3	NA	<i>MN1::BEND2</i>	AB-MN1
Sturm <i>et al.</i>	parietal lobe	16	M	NA	NA	NA	NA	NA	<i>MN1::CXXC5</i>	AB-MN1
Baroni <i>et al.</i>	supratentorial	3	F	0	197	1, local	6	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	4	F	0	11	0	NA	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	4	F	1	35	1, local	26	NA	NA	AB-MN1
Baroni <i>et al.</i>	spinal	5	F	0	18	1, local	15	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	5	F	0	24	0	NA	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	6	F	0	25	0	NA	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	7	F	1	72	1, meta	36	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	8	F	0	115	0	NA	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	8	F	0	90	1, local	63	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	10	F	0	100	0	NA	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	13	F	0	24	0	NA	NA	NA	AB-MN1
Baroni <i>et al.</i>	spinal	14	M	1	88	1, metastasis	23	NA	NA	AB-MN1
Baroni <i>et al.</i>	supratentorial	14	F	0	64	0	NA	NA	NA	AB-MN1
Baroni <i>et al.</i>	spinal	36	M	0	132	1, local	60	NA	NA	AB-MN1
Hirose <i>et al.</i>	left parietal lobe	5	F	1	72	1, multiple	NA	NA	NA	NA
Hirose <i>et al.</i>	left frontal lobe	11	M	NA	NA	0	NA	NA	NA	NA
Hirose <i>et al.</i>	left frontal lobe	60	F	0	24	0	NA	NA	NA	NA
Petruzzellis <i>et al.</i>	left parietal lobe	4	F	0	21	0	0	NA	NA	AB-MN1
Sturm <i>et al.</i>	parietal lobe, right	2	F	NA	NA	NA	NA	NA	NA	AB-MN1
Sturm <i>et al.</i>	NA	8	F	0	3	0	NA	WT	NA	AB-MN1
Sturm <i>et al.</i>	frontal lobe	11	M	NA	NA	NA	NA	NA	NA	AB-MN1

Sturm <i>et al.</i>	parieto-central	11	M	NA	NA	NA	NA	NA	NA	AB-MN1
Sturm <i>et al.</i>	frontal/temporal lobe, left	14	F	NA	NA	NA	NA	NA	NA	AB-MN1
Sturm <i>et al.</i>	frontal lobe, right	20	F	NA	NA	NA	NA	NA	NA	AB-MN1
Sturm <i>et al.</i>	NA	NA	NA	NA	NA	NA	NA	NA	NA	AB-MN1
Sturm <i>et al.</i>	NA	NA	F	NA	NA	NA	NA	NA	NA	AB-MN1
Sturm <i>et al.</i>	NA	NA	F	NA	NA	NA	NA	NA	NA	AB-MN1
Tauziède-Espariat <i>et al.</i>	occipital, right	7	F	1	27	1, local	12	NA	NA	AB-MN1

AB: astroblastoma; **F:** female; **HGNET:** high-grade neuroepithelial tumor; **M:** male; **NA:** not available; **OS:** overall survival; **PFS:** progression-free survival; **Rearr.:** rearrangement; **WT:** wildtype.