

Supplementary Table 1 Characteristics of NF1-glioma cohort.

Case ID	Age	Gender	Diagnosis	Grade	Matched Normal (Blood)	NF1 germline mutation	chrX Tumor Ploidy	WES	RNaseq	DNA Meth
1	22	Female	Anaplastic xanthoastrocytoma	III	no	YES *	1.92	YES	YES	YES
3	39	Male	Glioblastoma multiforme	IV	YES	YES	1.03	YES	YES	YES
4	20	Male	Anaplastic astrocytoma	III	YES	YES	1.41	YES	YES	no
5	34	Male	Anaplastic ganglioglioma	III	YES	YES	1.01	YES	YES	YES
6	22	Female	Pilocytic astrocytoma	I	YES	YES	1.88	YES	no	YES
7	42	Male	Glioblastoma multiforme	IV	YES	YES	1.36	YES	YES	YES
8	57	Male	Pilocytic astrocytoma	I	YES	no	1.02	YES	no	YES
9	43	Female	Pilocytic astrocytoma	I	YES	YES	1.84	YES	no	no
10	40	Male	Ganglioglioma	II	YES	YES	1.35	YES	no	YES
11	26	Female	Xanthoastrocytoma	II	YES	YES	1.99	YES	YES	YES
12	20	Male	Ganglioglioma	II	YES	YES	1.03	YES	YES	YES
13	32	Female	Xanthoastrocytoma	II	YES	YES	1.73	YES	YES	YES
14	56	Male	Anaplastic astrocytoma	III	YES	no	1.02	YES	YES	YES
15	5	Female	Optic pathway glioma	II	YES	YES	1.99	YES	YES	no
16	15	Female	Pilocytic astrocytoma	I	YES	YES	1.83	YES	YES	YES
17	11	Male	Pilocytic astrocytoma	I	YES	YES	0.94	YES	YES	YES
19	26	Male	Glioblastoma multiforme	IV	YES	YES	1.00	YES	no	YES
20	18	Male	Glioblastoma multiforme	IV	YES	YES	1.28	YES	no	YES
21	unknown	Female	Glioblastoma multiforme	IV	YES	YES	1.93	YES	no	YES
22	11	Female	Pilocytic astrocytoma	I	YES	YES	1.89	YES	no	YES
23	2	Male	Glioblastoma multiforme	IV	YES	YES	1.40	YES	no	YES
24	2	Female	Pilocytic astrocytoma	I	YES	no	1.92	YES	no	no
27	10	Female	Pilocytic astrocytoma	I	YES	YES	1.81	YES	no	no
28	10	Male	Pilocytic astrocytoma	I	YES	YES	1.01	YES	no	no
29	11	Female	Pilocytic astrocytoma	I	YES	YES	2.02	YES	no	no
30	11	Male	Anaplastic astrocytoma	III	YES	YES	1.02	YES	no	no
31	40	Female	Anaplastic astrocytoma	III	YES	YES	1.90	YES	YES	YES
32	18	Female	Pilocytic astrocytoma	I	no	YES *	1.81	YES	YES	YES
33	15	Female	Pilocytic astrocytoma	I	YES	no	1.99	YES	YES	YES
34	38	Female	Glioblastoma multiforme	IV	no	YES *	1.99	YES	no	YES
35	37	Male	Xanthoastrocytoma	II	no	YES *	1.17	YES	YES	YES
36	15	Female	Ganglioglioma	II	no	YES *	2.01	YES	YES	YES
37	7	Female	High-grade glioma	III	no	YES *	2.05	YES	no	YES
38	18	Male	Ganglioglioma	I	no	YES *	0.97	YES	YES	YES
39**	34	Male	Pilocytic astrocytoma	I	YES	YES	0.90	YES	YES	no
42	20	Female	Pilocytic astrocytoma	I	YES	YES	1.65	YES	YES	no
43	23	Female	Pilocytic astrocytoma	I	YES	YES	1.71	YES	YES	no
44	25	Female	Anaplastic astrocytoma	III	YES	YES	2.02	YES	no	no
46	9	Female	Low-grade calcifying astrocytoma	II	YES	YES	2.05	YES	no	no
47	14	Male	Pilocytic astrocytoma	I	YES	YES	1.05	YES	no	no
48	7	Female	Pilocytic astrocytoma	I	YES	YES	2.02	YES	YES	no
49	11	Female	Glioblastoma multiforme	IV	YES	YES	1.81	YES	no	no
51	63	Male	Glioblastoma multiforme	IV	YES	YES	1.22	YES	no	no
52	9	Female	Pilocytic astrocytoma	I	YES	YES	1.94	YES	YES	no
53	3	Male	Optic pathway glioma	I	YES	YES	1.02	YES	YES	no
55	40	Female	Glioblastoma multiforme	IV	YES	no	2.11	YES	no	no
56	13	Female	Glioblastoma multiforme	IV	YES	YES	1.43	YES	YES	no
57	42	Male	Glioblastoma multiforme	IV	YES	YES	1.14	YES	no	no
60	9	Female	Diffuse glioma	II	no	YES *	1.88	YES	no	YES
61	18	Female	Anaplastic diffuse glioma	III	no	YES *	1.98	YES	YES	YES
63	40	Female	Glioblastoma multiforme	IV	no	YES *	2.00	YES	YES	no
64	42	Female	Anaplastic astrocytoma	III	no	YES *	2.07	YES	no	YES
65	38	Female	Ganglioglioma	I	no	YES *	1.79	YES	YES	no
66	3	Female	Pilocytic astrocytoma	I	YES	YES	2.04	YES	YES	YES
67	23	Male	Pilocytic astrocytoma	I	YES	YES	1.06	YES	no	YES
70	45	Male	Gliosarcoma	IV	no	YES *	1.25	YES	no	no

*NF1 germline mutation inferred from tumor DNA analysis.

**Four different biopsies of the same tumor were available for patient no. 39 (these are reported as 39.1, 39.2, 39.3 and 39.4 in Fig. 2).