

Supplementary Table 2. Patient Characteristics for Discovery Cohort 2. Tumor volume calculated by taking three measurements and using the following formula: $4\pi/3 * R1 * R2 * R3$. GBM = Glioblastoma, WT= Wildtype, N/A = Not Available, M=Male, F=Female

Blinded Cohort #	Age	Sex	WHO Grade	Diagnosis	IDH1 status	Location	Volume (cm ³)	Contrast Enhancement	Duration (weeks)	Recurrence	TERT Status (MGH)	TERT Status by ddPCR (Tissue)	Mutant Allele Frequency	Copies/mL of TERT Mutant from ddPCR of Matched Plasma	Copies/mL of TERT WT from ddPCR of Matched Plasma
1	67	F	IV	GBM	WT	Right multifocal anterior temporal	13.57	YES	12	NO	WT	WT	6.7	8.38	713.75
2	56	M	IV	GBM	WT	Right parietal	97.64	YES	8	NO	C228T	C228T	3095	1.5	993.75
3	24	M	IV	GBM	WT	Left parietal	24.93	YES	12	NO	WT	WT	1.9	1.13	2815
4	64	M	IV	GBM	WT	Left parietal and posterior frontal	465.51	YES	20	NO	C228T	C228T	1911	12.63	1046.25
5	65	M	IV	GBM	WT	Left parietal	231.68	YES	4	NO	C250T	C250T	1089	12.13	666.25
6	46	F	IV	GBM	WT	Right frontoparietal	290.60	YES	2	NO	C250T	C250T	957	9.5	1487.5
7	67	M	IV	GBM	WT	Right frontoparietal	522.40	YES	3	NO	C250T	C250T	333	8.88	402.5
8	66	M	IV	GBM	WT	Right parietal	304.42	YES	2	NO	C228T	C228T	1927	23.38	1196.25
9	61	M	IV	Recurrent/Residual GBM	WT	Right frontal lobe	7.35	YES	2	YES	WT	N/A	N/A	0	467.5
10	43	M	IV	GBM	IDH1 R132H	Left frontal	343.94	YES	12	NO	WT	WT	1.8	0	1033.75
11	52	M	IV	GBM	WT	Left frontal	515.12	YES	3	NO	Unknown Mutant	C228T	1370	6.75	1421.25
12	69	M	IV	GBM	WT	Right frontal	90.48	YES	3	NO	WT	WT	1.2	0.88	22350
13	74	F	IV	Recurrent/Residual GBM	WT	Left anterior temporal	17.34	YES	4	YES	C228T	C228T	1512	6.88	970
14	50	M	IV	GBM	WT	Right temporal	335.67	YES	3	NO	C228T	C228T	116	0	536.25
15	82	M	IV	GBM	WT	Right parietal	74.57	YES	1	NO	C228T	C228T	1888	11.13	752.5
16	31	M	II	Recurrent/Residual Oligodendroglioma	IDH1 R132H	Left parietal	50.72	YES	9	YES	Unknown Mutant	C228T	2767	11.63	1061.25
17	38	M	III	Recurrent/Residual Infiltrating Astrocytoma	IDH1 R132G	Left posterior cingulum	42.98	YES	N/A	YES	WT	WT	5.3	5.75	1023.75
18	73	F	IV	GBM	WT	Left parieto-occipital	127.91	YES	1	NO	C228T	C228T	1037	4	492.5
19	71	M	IV	GBM	WT	Left anterior temporal	200.81	YES	4	NO	C228T	C228T	8710	3.88	1575
20	60	F	IV	GBM	WT	Right frontal	153.06	YES	3	NO	C228T	C228T	7350	6.25	1956.25
21	64	F	IV	Recurrent/Residual GBM	IDH1 R132H	Right frontal	11.08	YES	3	YES	WT	WT	4.4	12.38	1052.5
22	61	F	IV	GBM	WT	Right frontal	205.84	YES	3	NO	C228T	C228T	764	9.13	1800
23	58	M	IV	GBM	WT	Left frontotemporal	451.89	YES	1	NO	C228T	C228T	4200	12.25	1252.5
24	43	M	III	Recurrent/Residual Anaplastic Astrocytoma	IDH1 R132H	Middle frontal gyrus	40.97	YES	8	YES	WT	WT	2.5	4.75	287.5
25	50	M	IV	GBM	WT	Right occipital	30.41	YES	8	NO	C228T	C228T	766	18.25	1991.25
26	38	M	II	Diffuse Astrocytoma	WT	Right frontal	115.36	YES	Incidental Finding	NO	WT	WT	3.5	6.75	888.75
27	29	F	III	Anaplastic Astrocytoma	IDH1 R132H	Left temporal	702.49	YES	4	NO	WT	WT	2.3	5.5	852.5
28	51	F	III	Anaplastic Astrocytoma	WT	Right temporal	65.60	YES	1	NO	WT	WT	7.4	2.13	973.75
29	50	M	IV	Recurrent/Residual GBM	WT	Right frontal	17.91	YES	N/A	YES	C250T	C250T	639	10.13	853.75
30	69	F	IV	GBM	WT	Cerebellar	16.91	YES	5	NO	WT	WT	7.3	7.38	2983.75
31	31	F	IV	GBM	IDH1 R132G	Right frontal	45.24	YES	N/A	YES	WT	WT	0	0	2083.75
32	48	F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	5.75	443.75
33	28	F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	0	671.25
34	24	F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	3.25	1176.25
35	29	F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	0	1812.5
36	23	F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	0	1892.5
37	23	F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	1.25	567.5
38	25	F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	1	1023.75
39	33	M	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	0	1753.75
40	30	F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	3.5	726.25
41	24	F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WT	N/A	N/A	1.88	1230
42	70	F	IV	GBM	WT	Corpus callosum/lateral ventricles	102.22	YES	3	NO	C228T	N/A	N/A	21.13	1651.25
43	71	M	IV	GBM	WT	Right parietal	36.88	YES	8	NO	C250T	N/A	N/A	10.63	6325
44	54	F	IV	GBM	WT	Left thalamic	176.43	YES	2	NO	C228T	N/A	N/A	4.25	1527.5
45	70	M	IV	GBM	WT	Left frontal	423.95	YES	4	NO	C228T	N/A	N/A	10	1587.5
46	59	F	IV	GBM	WT	Left frontal	71.43	YES	N/A	YES	C228T	N/A	N/A	13.88	2441.67
47	69	M	IV	GBM	WT	Bifrontal, corpus callosum	37.25	YES	3	NO	C250T	N/A	N/A	14.125	1197.5
48	56	M	IV	GBM	WT	Left frontal	88.22	YES	4	NO	C228T	N/A	N/A	31	1203.75