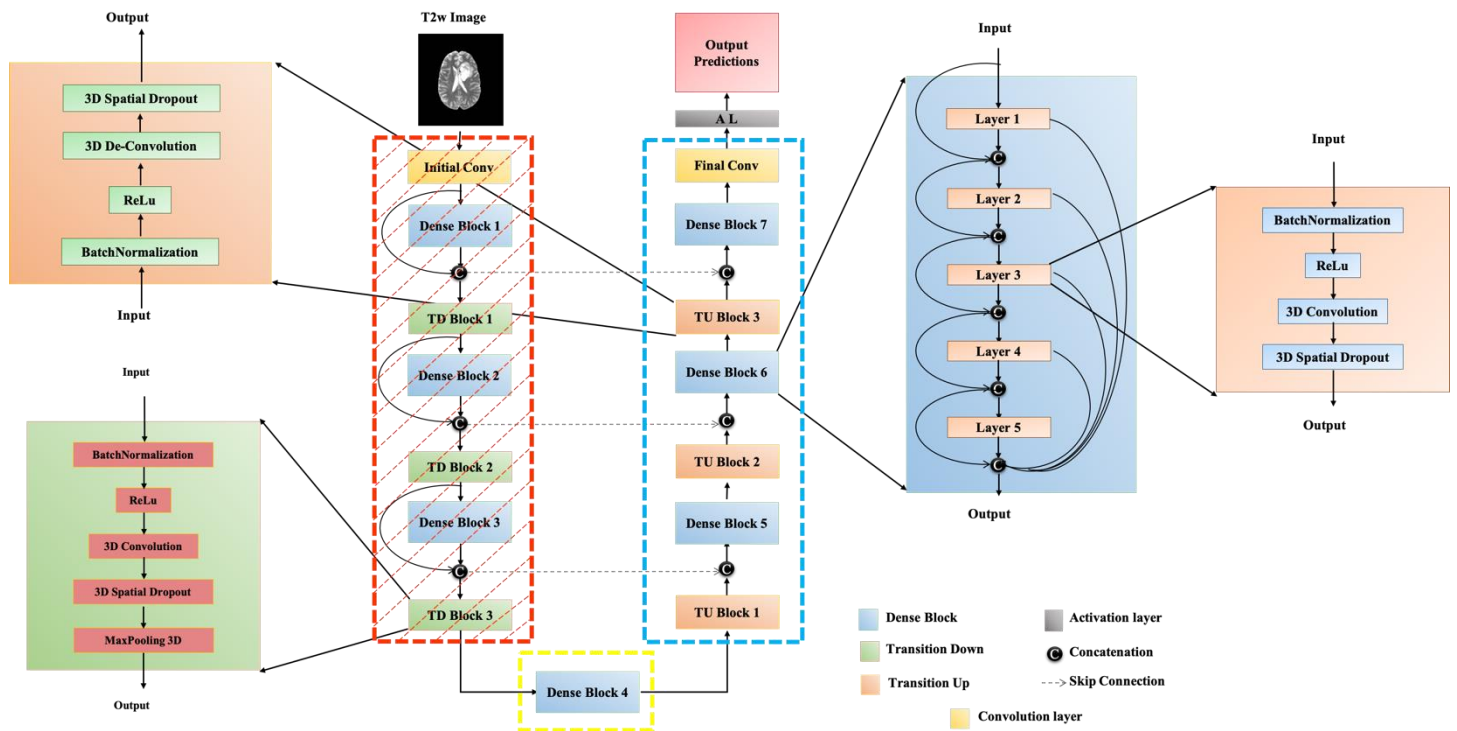


SUPPLEMENTAL MATERIAL

FIGURES



Supporting Figure 1: Detailed network architecture for the MGMT-net. Our previously trained 3D IDH network was used. The left arm of the Dense U-net (striped red box) is the encoder part of the network, the right arm of the network (blue box) is the decoder part and the dense block (yellow box) is the bottle neck block. The encoder part of the network was frozen to retain the pre-trained weights from the 3D IDH network. The bottleneck block and the decoder part of the network was fine-tuned for a dual class segmentation with class 1 & 2 representing methylated & unmethylated MGMT promoter status respectively.

ROC methodology

The network output classifies voxels in the tumor as methylated or unmethylated MGMT promoter type. The percent of methylated voxels was computed for the network output for each subject in the test set by dividing the predicted methylated voxels by the total number of predicted voxels in each tumor. The percent methylated voxels can be viewed as a network output prediction likelihood of the tumor being MGMT methylated. Note that in the manuscript, majority voting (the 50% threshold) was used to determine MGMT promoter status. For the ROC analysis, the percent of methylated voxels was sorted and used as separate thresholds (cut-points) to determine the MGMT promoter status for the subjects across the test set for each new cut-point. The resulting predicted MGMT promoter class membership was compared to the ground truth values to determine sensitivity (true positive rate) and 1- specificity (false positive rate) at each threshold. The resulting values were plotted using R to obtain an ROC curve (true positive rate against false positive rate). R routines were used to fit the curves and determine the area under the curve (AUC). This procedure was repeated for each of the 3 test folds from the cross-validation procedure for the MGMT-net, providing a total of 3 ROC curves from the cross-validation.

TABLES

Table 1: Subject wise MGMT promoter status and tumor histology

Subject ID	Age	Gender	Histology	Grade	TCGA Data Collection	IDH mutation Status	1p/19q co-deletion status	MGMT promoter status	Survival (months)	Karnofsky performance scores	Cross-validation group
TCGA-02-0003	50	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	4.7311056	100	2
TCGA-02-0006	56	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	18.3330342	80	2
TCGA-02-0009	61	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	10.5792778	80	2
TCGA-02-0011	18	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	20.698587	80	2
TCGA-02-0027	33	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	12.156313	100	2
TCGA-02-0033	54	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	2.8255214	100	1
TCGA-02-0034	60	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	14.127607	80	1
TCGA-02-0037	74	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	3.614039	80	1
TCGA-02-0046	61	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	6.8666741	60	1
TCGA-02-0047	78	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	14.7189952	80	1
TCGA-02-0060	66	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	6.0124467	80	2
TCGA-02-0064	50	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	19.71294	100	3
TCGA-02-0069	31	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	28.6823277	80	2
TCGA-02-0075	63	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	20.8300066	80	2
TCGA-02-0086	45	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	8.8051132	100	2
TCGA-02-0102	42	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	27.0067278	100	1
TCGA-06-0119	81	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	2.6941018	NA	2
TCGA-06-0122	84	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	6.1438663	NA	2
TCGA-06-0128	66	male	glioblastoma	G4	TCGA-GBM	Mutant	non-codel	Methylated	22.7027359	80	3
TCGA-06-0129	30	male	glioblastoma	G4	TCGA-GBM	Mutant	non-codel	Methylated	33.6434176	100	1
TCGA-06-0133	64	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	14.2918815	NA	2
TCGA-06-0137	63	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	26.6781788	NA	2
TCGA-06-0142	81	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	2.2012783	NA	1
TCGA-06-0143	58	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	11.7291993	60	1
TCGA-06-0145	53	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	2.3326979	NA	1
TCGA-06-0147	51	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	17.7745009	NA	2
TCGA-06-0148	76	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	10.0864543	NA	1
TCGA-06-0881	50	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	5.8481722	80	1
TCGA-06-1806	47	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	15.3103834	90	2
TCGA-06-2570	21	female	glioblastoma	G4	TCGA-GBM	Mutant	non-codel	Methylated	9.3636465	100	1
TCGA-06-5408	54	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	11.7291993	80	3
TCGA-06-5412	78	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	4.5339762	80	2
TCGA-06-5413	67	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	8.8051132	60	1
TCGA-06-5417	45	female	glioblastoma	G4	TCGA-GBM	Mutant	NA	Methylated	5.0925095	80	3
TCGA-06-6389	49	female	glioblastoma	G4	TCGA-GBM	Mutant	non-codel	Methylated	7.7866113	100	3
TCGA-12-0829	75	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	20.5671674	80	2
TCGA-12-1093	66	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	15.9674814	80	1
TCGA-12-1598	75	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	15.6389324	NA	3

TCGA-12-1601	NA	NA	NA	NA	TCGA-GBM	WT	NA	Unmethylated	NA	NA	2
TCGA-12-1602	58	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	6.7681094	60	2
TCGA-12-3650	46	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	10.9406817	80	3
TCGA-14-0789	54	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	11.2363758	40	2
TCGA-14-1456	23	male	glioblastoma	G4	TCGA-GBM	Mutant	non-codel	Unmethylated	40.9372054	80	3
TCGA-14-1794	59	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	0.985647	NA	2
TCGA-14-1829	57	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	7.1623682	60	2
TCGA-14-3477	38	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	3.7783135	80	3
TCGA-19-1390	63	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	25.3639828	60	1
TCGA-19-1789	69	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	3.2526351	60	2
TCGA-19-1791	82	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	0.1314196	NA	1
TCGA-19-2620	70	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	4.8625252	40	3
TCGA-19-2624	51	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	0.1642745	NA	1
TCGA-19-2631	74	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	6.9980937	60	3
TCGA-19-5953	58	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	4.7311056	NA	1
TCGA-19-5954	72	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	7.9508858	60	3
TCGA-19-5958	56	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	5.3882036	80	1
TCGA-27-1830	57	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	5.0596546	80	2
TCGA-27-1835	53	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	21.2899752	80	1
TCGA-27-1836	33	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	30.0293786	80	1
TCGA-27-1838	59	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	11.499215	80	3
TCGA-76-4925	76	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	4.7968154	100	2
TCGA-76-4926	68	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	4.5339762	80	3
TCGA-76-4927	58	male	glioblastoma	G4	TCGA-GBM	WT	NA	Unmethylated	17.5773715	80	2
TCGA-76-4928	85	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	3.0883606	80	1
TCGA-76-4929	76	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	3.6468939	80	3
TCGA-76-4931	70	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	9.1665171	80	3
TCGA-76-4932	50	female	glioblastoma	G4	TCGA-GBM	WT	NA	Methylated	47.9024442	80	3
TCGA-76-4934	66	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	2.5298273	80	1
TCGA-76-4935	52	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	10.7764072	80	2
TCGA-76-6191	57	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	16.6902892	80	3
TCGA-76-6192	74	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	3.28549	80	2
TCGA-76-6193	78	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	2.6941018	60	2
TCGA-76-6280	57	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	11.3677954	80	1
TCGA-76-6282	63	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	17.0516931	80	2
TCGA-76-6285	64	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	8.3451446	80	3
TCGA-76-6286	60	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	20.9614262	80	1
TCGA-76-6656	66	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	4.8296703	60	3
TCGA-76-6657	74	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	5.0267997	80	2
TCGA-76-6661	54	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	0.2299843	60	3
TCGA-76-6662	58	male	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	9.2650818	80	1
TCGA-76-6663	44	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Unmethylated	7.7209015	80	3
TCGA-76-6664	49	female	glioblastoma	G4	TCGA-GBM	WT	non-codel	Methylated	7.7866113	80	3

TCGA-CS-4938	31	female	astrocytoma	G2	TCGA-LGG	Mutant	non-codel	Unmethylated	4.6982507	90	3
TCGA-CS-4941	67	male	astrocytoma	G3	TCGA-LGG	WT	non-codel	Methylated	7.6880466	90	1
TCGA-CS-4942	44	female	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Unmethylated	43.8612915	90	1
TCGA-CS-4943	37	male	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	18.1359048	50	3
TCGA-CS-4944	50	male	astrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	10.6121327	90	2
TCGA-CS-5390	47	female	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	64.5927334	100	2
TCGA-CS-5393	39	male	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	40.1486878	100	2
TCGA-CS-5394	40	male	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	0.0985647	NA	1
TCGA-CS-5395	43	male	oligodendroglioma	G2	TCGA-LGG	WT	non-codel	Unmethylated	20.9942811	90	1
TCGA-CS-5396	53	female	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	9.9550347	90	3
TCGA-CS-5397	54	female	astrocytoma	G3	TCGA-LGG	WT	non-codel	Unmethylated	6.3738506	80	2
TCGA-CS-6186	58	male	oligoastrocytoma	G3	TCGA-LGG	WT	non-codel	Unmethylated	17.6759362	90	1
TCGA-CS-6188	48	male	astrocytoma	G3	TCGA-LGG	WT	non-codel	Unmethylated	23.8198025	90	2
TCGA-CS-6290	31	male	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	17.9387754	90	1
TCGA-CS-6665	51	female	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	12.4191522	90	3
TCGA-CS-6666	22	male	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	8.4765642	90	2
TCGA-CS-6667	39	female	astrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	7.556627	90	1
TCGA-CS-6668	57	female	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	8.0165956	90	1
TCGA-CS-6669	26	female	oligodendroglioma	G2	TCGA-LGG	WT	non-codel	Unmethylated	7.3923525	90	3
TCGA-DU-5849	48	male	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	14.5547207	NA	1
TCGA-DU-5851	40	female	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-codel	Unmethylated	17.4459519	90	3
TCGA-DU-5852	61	female	oligoastrocytoma	G3	TCGA-LGG	WT	non-codel	Methylated	6.7352545	80	3
TCGA-DU-5853	29	male	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	13.3719443	100	2
TCGA-DU-5854	57	female	astrocytoma	G3	TCGA-LGG	WT	non-codel	Unmethylated	8.4437093	90	2
TCGA-DU-5855	49	female	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	6.8009643	100	2
TCGA-DU-5871	37	female	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	18.9244224	100	3
TCGA-DU-5872	43	female	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	17.4788068	NA	2
TCGA-DU-5874	62	female	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	15.1461089	100	3
TCGA-DU-6395	31	male	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	48.9866559	NA	1
TCGA-DU-6397	45	male	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	46.0297149	NA	2
TCGA-DU-6399	54	male	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	65.7098	NA	1
TCGA-DU-6400	66	female	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	1.2156313	NA	3
TCGA-DU-6401	31	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	87.394034	NA	3
TCGA-DU-6404	24	female	oligodendroglioma	G3	TCGA-LGG	WT	non-codel	Unmethylated	133.6537332	100	3
TCGA-DU-6405	51	female	astrocytoma	G3	TCGA-LGG	WT	non-codel	Methylated	19.8772145	90	3
TCGA-DU-6407	35	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	94.4578375	90	3
TCGA-DU-6408	23	female	oligodendroglioma	G3	TCGA-LGG	Mutant	non-codel	Methylated	114.006503	90	1
TCGA-DU-7008	41	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	156.1264848	NA	1
TCGA-DU-7010	58	female	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	14.9818344	NA	3
TCGA-DU-7013	59	male	astrocytoma	G3	TCGA-LGG	WT	non-codel	Unmethylated	8.8379681	80	1
TCGA-DU-7015	41	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	90.7123789	90	2
TCGA-DU-7018	57	female	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	30.6536217	90	1
TCGA-DU-7019	39	male	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	26.28392	100	1

TCGA-DU-7294	53	female	oligodendroglioma	G2	TCGA-LGG	Mutant	coding	Methylated	94.2607081	100	1
TCGA-DU-7298	38	female	astrocytoma	G3	TCGA-LGG	Mutant	non-coding	Methylated	18.9244224	80	2
TCGA-DU-7299	33	male	astrocytoma	G3	TCGA-LGG	Mutant	non-coding	Methylated	43.9927111	90	3
TCGA-DU-7300	53	female	oligodendroglioma	G3	TCGA-LGG	Mutant	coding	Methylated	61.9643414	90	3
TCGA-DU-7301	53	male	oligodendroglioma	G2	TCGA-LGG	Mutant	non-coding	Methylated	25.8896612	100	3
TCGA-DU-7302	48	female	oligodendroglioma	G3	TCGA-LGG	Mutant	coding	Methylated	60.2558866	90	1
TCGA-DU-7304	43	male	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-coding	Methylated	23.2941241	80	3
TCGA-DU-7306	67	male	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-coding	Methylated	41.9557073	100	1
TCGA-DU-7309	41	female	oligodendroglioma	G3	TCGA-LGG	Mutant	non-coding	Methylated	2.7598116	90	3
TCGA-DU-8158	57	female	astrocytoma	G3	TCGA-LGG	WT	non-coding	Unmethylated	5.0925095	80	3
TCGA-DU-8162	61	female	oligoastrocytoma	G3	TCGA-LGG	WT	non-coding	Unmethylated	14.5875756	80	1
TCGA-DU-8164	51	male	oligodendroglioma	G2	TCGA-LGG	Mutant	coding	Methylated	21.3885399	NA	1
TCGA-DU-8165	60	female	oligodendroglioma	G3	TCGA-LGG	WT	non-coding	Unmethylated	19.1215518	90	1
TCGA-DU-8166	29	female	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-coding	Methylated	16.9531284	NA	2
TCGA-DU-8167	69	female	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-coding	Methylated	15.4746579	100	3
TCGA-DU-8168	55	female	oligodendroglioma	G3	TCGA-LGG	Mutant	coding	Methylated	14.1604619	70	3
TCGA-DU-A5TP	33	male	astrocytoma	G3	TCGA-LGG	Mutant	non-coding	Methylated	14.2261717	70	2
TCGA-DU-A5TR	51	male	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-coding	Methylated	12.5834267	90	2
TCGA-DU-A5TS	42	male	oligodendroglioma	G2	TCGA-LGG	Mutant	non-coding	Methylated	15.113254	100	2
TCGA-DU-A5TT	70	male	oligodendroglioma	G3	TCGA-LGG	WT	non-coding	Methylated	4.9610899	NA	2
TCGA-DU-A5TU	62	female	astrocytoma	G2	TCGA-LGG	Mutant	non-coding	Methylated	3.6468939	50	1
TCGA-DU-A5TW	33	female	astrocytoma	G3	TCGA-LGG	Mutant	non-coding	Methylated	5.6510428	100	2
TCGA-DU-A5TY	46	female	astrocytoma	G3	TCGA-LGG	WT	non-coding	Methylated	12.1891679	NA	2
TCGA-DU-A6S2	37	female	oligodendroglioma	G2	TCGA-LGG	Mutant	coding	Methylated	8.6408387	70	2
TCGA-DU-A6S3	60	male	oligodendroglioma	G2	TCGA-LGG	Mutant	coding	Methylated	2.6941018	NA	3
TCGA-DU-A6S6	35	female	oligoastrocytoma	G2	TCGA-LGG	Mutant	coding	Methylated	77.9318228	90	1
TCGA-DU-A6S7	27	female	astrocytoma	G3	TCGA-LGG	Mutant	non-coding	Methylated	7.228078	90	2
TCGA-DU-A6S8	74	female	oligodendroglioma	G3	TCGA-LGG	Mutant	coding	Methylated	5.9795918	90	2
TCGA-FG-5963	23	male	astrocytoma	G3	TCGA-LGG	WT	non-coding	Unmethylated	25.4625475	90	2
TCGA-FG-5964	62	male	oligodendroglioma	G2	TCGA-LGG	Mutant	coding	Methylated	34.3333705	NA	1
TCGA-FG-6688	59	female	astrocytoma	G3	TCGA-LGG	WT	non-coding	Methylated	18.7601479	80	2
TCGA-FG-6689	30	male	astrocytoma	G2	TCGA-LGG	Mutant	non-coding	Methylated	14.9161246	70	3
TCGA-FG-6690	70	male	oligodendroglioma	G2	TCGA-LGG	Mutant	non-coding	Methylated	24.969724	90	2
TCGA-FG-6691	23	female	astrocytoma	G2	TCGA-LGG	Mutant	non-coding	Unmethylated	23.9512221	100	3
TCGA-FG-6692	63	male	oligodendroglioma	G3	TCGA-LGG	WT	non-coding	Methylated	18.4315989	NA	1
TCGA-FG-7634	28	male	oligodendroglioma	G2	TCGA-LGG	Mutant	coding	Methylated	15.3432383	NA	1
TCGA-FG-7637	49	male	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-coding	Methylated	40.0501231	NA	1
TCGA-FG-8189	33	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-coding	Methylated	11.8606189	70	3
TCGA-FG-A4MT	27	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-coding	Methylated	38.2431036	100	2
TCGA-FG-A4MU	58	male	oligoastrocytoma	G3	TCGA-LGG	WT	non-coding	Methylated	0.5913882	NA	1
TCGA-FG-A6IZ	60	male	oligodendroglioma	G2	TCGA-LGG	Mutant	coding	Methylated	4.2054272	NA	3
TCGA-FG-A6J1	44	female	oligodendroglioma	G2	TCGA-LGG	Mutant	coding	Methylated	4.0740076	70	2
TCGA-FG-A713	74	female	oligoastrocytoma	G2	TCGA-LGG	Mutant	coding	Methylated	5.2239291	60	3

TCGA-FG-A87N	37	female	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	7.4252074	NA	3
TCGA-HT-7468	30	male	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	6.6695447	80	1
TCGA-HT-7469	30	male	oligodendroglioma	G3	TCGA-LGG	WT	non-codel	Methylated	11.5320699	NA	1
TCGA-HT-7471	37	female	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	0.1314196	NA	2
TCGA-HT-7472	38	male	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	0.0328549	NA	1
TCGA-HT-7473	28	male	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-codel	Unmethylated	16.5260147	NA	3
TCGA-HT-7475	67	male	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	17.413097	70	3
TCGA-HT-7476	26	male	astrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	6.5381251	NA	1
TCGA-HT-7478	36	male	astrocytoma	G2	TCGA-LGG	Mutant	non-codel	Unmethylated	6.3738506	NA	1
TCGA-HT-7481	39	male	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	59.13882	NA	2
TCGA-HT-7602	21	male	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	29.8322492	NA	2
TCGA-HT-7603	29	male	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	23.1627045	NA	2
TCGA-HT-7605	38	male	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	4.5668311	NA	3
TCGA-HT-7606	30	female	astrocytoma	G2	TCGA-LGG	Mutant	non-codel	Unmethylated	17.2816774	NA	1
TCGA-HT-7608	61	male	oligoastrocytoma	G2	TCGA-LGG	Mutant	codel	Methylated	22.0456379	NA	2
TCGA-HT-7616	75	male	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	0.2299843	NA	3
TCGA-HT-7680	32	female	astrocytoma	G2	TCGA-LGG	WT	non-codel	Unmethylated	0.7556627	NA	3
TCGA-HT-7684	58	male	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	6.0453016	NA	3
TCGA-HT-7686	29	female	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	42.71137	NA	3
TCGA-HT-7690	29	male	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	0.0985647	NA	3
TCGA-HT-7692	43	male	oligoastrocytoma	G2	TCGA-LGG	Mutant	codel	Methylated	2.956941	100	1
TCGA-HT-7693	51	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	17.5116617	90	1
TCGA-HT-7694	60	male	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	6.899529	90	2
TCGA-HT-7695	29	female	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	14.5218658	NA	1
TCGA-HT-7854	62	male	astrocytoma	G2	TCGA-LGG	WT	non-codel	Unmethylated	39.4587349	100	3
TCGA-HT-7855	39	male	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	19.2201165	NA	2
TCGA-HT-7856	35	male	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	39.0644761	NA	2
TCGA-HT-7860	60	female	astrocytoma	G3	TCGA-LGG	WT	non-codel	Methylated	0.4928235	NA	2
TCGA-HT-7874	41	female	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	37.126037	NA	1
TCGA-HT-7877	20	female	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	0.1314196	NA	3
TCGA-HT-7879	31	male	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	3.6797488	NA	1
TCGA-HT-7880	30	male	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	5.3224938	NA	3
TCGA-HT-7882	66	male	oligodendroglioma	G3	TCGA-LGG	WT	non-codel	Methylated	3.7126037	NA	2
TCGA-HT-7884	44	female	astrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	11.2692307	80	1
TCGA-HT-7902	30	female	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	31.4092844	NA	3
TCGA-HT-8010	64	female	oligodendroglioma	G2	TCGA-LGG	Mutant	codel	Methylated	1.642745	NA	3
TCGA-HT-8013	37	female	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	63.5085217	NA	1
TCGA-HT-8015	21	male	astrocytoma	G2	TCGA-LGG	WT	non-codel	Unmethylated	0.0985647	NA	1
TCGA-HT-8018	40	female	oligoastrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	21.4871046	NA	3
TCGA-HT-8019	34	female	oligodendroglioma	G3	TCGA-LGG	WT	non-codel	Unmethylated	32.9863196	NA	1
TCGA-HT-8105	54	male	oligodendroglioma	G3	TCGA-LGG	Mutant	codel	Methylated	6.242431	NA	3
TCGA-HT-8106	53	male	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	0.0985647	NA	1
TCGA-HT-8107	62	male	oligodendroglioma	G2	TCGA-LGG	WT	non-codel	Methylated	0.4599686	NA	2

TCGA-HT-8108	26	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	2.4969724	NA	1
TCGA-HT-8111	32	male	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	0.2299843	NA	2
TCGA-HT-8113	49	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	29.56941	NA	3
TCGA-HT-8114	36	male	oligoastrocytoma	G3	TCGA-LGG	Mutant	non-codel	Methylated	3.8768782	NA	2
TCGA-HT-8558	29	female	oligodendroglioma	G2	TCGA-LGG	WT	non-codel	Unmethylated	1.7084548	NA	2
TCGA-HT-8563	30	female	astrocytoma	G3	TCGA-LGG	Mutant	non-codel	Unmethylated	16.0331912	NA	3
TCGA-HT-8564	47	male	astrocytoma	G3	TCGA-LGG	WT	non-codel	Unmethylated	15.7046422	80	2
TCGA-HT-A4DS	55	female	astrocytoma	G3	TCGA-LGG	WT	non-codel	Unmethylated	0.2299843	NA	2
TCGA-HT-A5R5	33	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	0.1314196	NA	2
TCGA-HT-A5RB	24	male	astrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	0.0985647	NA	1
TCGA-HT-A5RC	70	female	astrocytoma	G3	TCGA-LGG	WT	non-codel	Unmethylated	5.3224938	40	2
TCGA-HT-A616	36	female	astrocytoma	G2	TCGA-LGG	Mutant	non-codel	Methylated	1.8070195	NA	3
TCGA-HT-A61A	20	female	oligodendroglioma	G2	TCGA-LGG	Mutant	non-codel	Methylated	6.3738506	80	3
TCGA-HT-A61B	NA	NA	NA	NA	TCGA-LGG	Mutant	non-codel	Methylated	NA	NA	2
W1_19961025	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	2
W10_19970429	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	1
W12_19970620	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	3
W13_19970822	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	3
W16_19971015	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	1
W18_19971110	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	1
W2_19961101	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	3
W20_19970516	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	1
W21_19980105	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	2
W22_19980102	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	1
W29_19980521	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	3
W30_19980608	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	2
W31_19980629	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	3
W32_19980701	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	3
W33_19980704	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	3
W34_19980713	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	2
W36_19980714	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	1
W38_19980910	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	2
W39_19980919	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	1
W5_19961211	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	3
W54_20000902	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	3
W7_19961218	NA	NA	NA	NA	NA	NA	NA	Methylated	NA	NA	1
W9_19970410	NA	NA	NA	NA	NA	NA	NA	Unmethylated	NA	NA	3