

Supplemental Table 1: The statistics and description of the datasets used in this study

GEO Datasets	Samples	References
GSE50161	13 normal brain samples, 46 ependymomas, 34 GBM, 22 medulloblastomas, and 15 pilocytic astrocytoma	[18]
GSE4290	23 non-tumor samples from epilepsy patients, 26 astrocytomas, 50 oligodendrogliomas, and 81 GBM.	[19]
GSE7696	28 GBM specimen of patients treated with radiotherapy, 52 GBM specimen of patients treated with adjuvant temozolomide (TMZ) and radiotherapy, and 4 samples of non-tumor brain tissues	[20,21]