



A prognostic neural epigenetic signature in high-grade glioma

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Invasivity signature referring to Fig. 2a, modified from Venkataramani et al. (C

Gene with CpG site	FDC in high-neural glioblastoma	p-value
ACAT2 cg01552187	-0.002831499	0.505450424
ACAT2 cg05879334	-0.00716411	0.240693002
ACAT2 cg06131755	0.009578746	0.878246513
ACAT2 cg09900253	-0.031348605	0.047378021
ACAT2 cg10268548	-0.089339749	0.000186993
ACAT2 cg10432632	-0.005114947	0.327391606
ACAT2 cg11366901	-0.000844221	0.890444426
ACAT2 cg13804918	-0.001767365	0.655053412
ACAT2 cg14767165	-0.022957351	0.017055807
ACAT2 cg15298323	0.007980776	0.892321385
ACAT2 cg18959411	0.007946555	0.434174425
ACAT2 cg23829577	-0.006605033	0.272794245
ACAT2 cg24224803	-0.010696249	0.089468298
ACAT2 cg24683514	-0.005742684	0.563348584
ACTB cg00804485	-0.001459163	0.758845435
ACTB cg01741041	-0.041150009	0.110366757
ACTB cg02356111	0.000586255	0.83973706
ACTB cg03324421	0.002539935	0.24438669
ACTB cg04490349	0.087479008	3.76202E-09
ACTB cg06003197	0.001098783	0.84901267
ACTB cg07476653	0.003021393	0.790127206
ACTB cg09041756	-0.001080041	0.913240466
ACTB cg13677897	-0.003932465	0.20803228
ACTB cg14145074	-0.029789492	0.211481959
ACTB cg15356195	6.33335E-05	0.98743804
ACTB cg18080670	0.00221091	0.597194605
ACTB cg23162587	0.000156949	0.983763106
ACTB cg23175281	-0.00231874	0.240008907
ACTB cg23261233	-0.000951931	0.826811142
ANAPC11 cg00014986	0.00266718	0.889811954
ANAPC11 cg01515426	-0.002872009	0.381683056
ANAPC11 cg02132003	-0.002832782	0.484925874
ANAPC11 cg02387854	-0.003452136	0.490020313
ANAPC11 cg05147328	-0.005058256	0.378086946
ANAPC11 cg08184047	-0.009016522	0.071462883
ANAPC11 cg08217660	-0.000573827	0.909824095
ANAPC11 cg10468580	-0.016037495	0.355238891
ANAPC11 cg12439463	-0.003445827	0.575885197
ANAPC11 cg13780054	-0.00144562	0.747206976
ANAPC11 cg14209926	-0.003639239	0.636761606
ANAPC11 cg18375296	-0.002544165	0.574105223
ANAPC11 cg21639988	-0.002891732	0.447969291
ANAPC11 cg21823502	0.109799697	0.007481461

ANAPC11 cg23402661	-0.00486093	0.430114732
ANAPC11 cg23639857	-0.002971663	0.646986047
ANAPC11 cg25245636	-0.002138617	0.611796194
ANXA2 cg00155593	-0.00208531	0.821163128
ANXA2 cg00930615	0.015082206	0.661056585
ANXA2 cg02072495	0.224340512	9.67929E-10
ANXA2 cg03957109	-0.03992108	0.088203536
ANXA2 cg06738887	0.110049076	8.55297E-05
ANXA2 cg08081036	-0.004200192	0.228862944
ANXA2 cg08163714	-0.023696827	0.159257088
ANXA2 cg09419486	-0.000414986	0.972523294
ANXA2 cg09533293	0.075811557	0.000125432
ANXA2 cg11421255	0.003164667	0.927987565
ANXA2 cg11681321	0.068389148	0.093502285
ANXA2 cg13313836	0.112597111	4.6538E-08
ANXA2 cg13634501	0.002205587	0.673941038
ANXA2 cg13785221	0.00188554	0.66595642
ANXA2 cg14397690	0.140771728	3.24978E-05
ANXA2 cg16472060	0.00152041	0.761721887
ANXA2 cg17893775	0.007862617	0.413031085
ANXA2 cg20118643	-0.010147926	0.791900126
ANXA2 cg21711008	0.000756063	0.978783908
ANXA2 cg22293140	0.013520142	0.40023998
ANXA2 cg22365276	0.027893444	0.344574201
ANXA2 cg22502206	-0.001510245	0.971858078
ANXA2 cg22581200	-0.077056656	5.65177E-05
ANXA2 cg25515997	0.040723081	0.013656094
ANXA2 cg27554954	0.00049047	0.986226239
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AP2S1 cg01358551	-0.000887304	0.954871857
AP2S1 cg02303361	0.000434366	0.893302566
AP2S1 cg06591892	0.002876302	0.682851005
AP2S1 cg07661340	0.000688833	0.967328744
AP2S1 cg10672726	-0.005841973	0.889713892
AP2S1 cg12258824	-0.005985545	0.902466201
AP2S1 cg13321746	0.000185525	0.971562253
AP2S1 cg14008648	-0.00123259	0.71260334
AP2S1 cg14815743	-0.023997915	0.258047761
AP2S1 cg23131950	-0.065172502	0.105822528
AP2S1 cg25230305	-0.00153449	0.936936157
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ASCL1 cg03700449	0.001578118	0.850033386
ASCL1 cg04610718	-0.009202086	0.758023488
ASCL1 cg08927739	0.000596862	0.964141374
ASCL1 cg10672201	-0.017506898	0.496274039
ASCL1 cg10700564	-0.010173686	0.001265123
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ASCL1 cg14794428	-0.002110542	0.579469321

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ASCL1 cg17015844	-0.002897518	0.634575379
ASCL1 cg20053158	-0.005436232	0.036172557
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ASCL1 cg25734490	-0.003623736	0.32099803
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DLL1 cg13250324	-0.024861675	0.107643824
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TCF12 cg12637615	-0.095602945	6.03576E-06
TCF12 cg13033086	0.007923324	0.663227263
TCF12 cg13165992	-0.032179063	0.021794762

TCF12 cg14303079	0.005711284	0.733275688
TCF12 cg14507132	-0.006046784	0.648295281
TCF12 cg15085879	-0.001674565	0.758331351
TCF12 cg16458838	-0.019541999	0.224550448
TCF12 cg16515457	-0.105685341	0.000663444
TCF12 cg17140034	-0.00421442	0.89378305
TCF12 cg17396978	-0.004427684	0.625191793
TCF12 cg17883068	0.06951655	0.06724018
TCF12 cg18117669	-0.045000254	0.009651302
TCF12 cg20555018	-0.042817133	0.002766715
TCF12 cg21831937	-0.111221918	0.000356867
TCF12 cg22677180	-0.005053422	0.741736218
TCF12 cg24079727	0.09098571	0.000653927
TCF12 cg24492778	0.09231839	2.39842E-06
TCF12 cg24783019	-0.029380572	0.023952049
TCF12 cg24784129	-0.089127163	0.00033813
TCF12 cg25005357	-0.131626829	1.25605E-08
TCF12 cg25688583	-0.035582894	0.049464811
TCF12 cg25707951	-0.070870985	0.053481617
TCF12 cg26810157	-0.05144906	0.198614371
TCF12 cg27119612	-0.114243922	2.25055E-11
TCTEX1D2 cg00961292	-0.005310097	0.750961973
TCTEX1D2 cg01915044	-9.17495E-05	0.976129682
TCTEX1D2 cg02026253	-0.006955443	0.097787335
TCTEX1D2 cg04887335	-0.018726701	0.274234093
TCTEX1D2 cg10336858	-0.006107869	0.559812952
TCTEX1D2 cg14465410	-0.023382649	0.354596659
TCTEX1D2 cg15268007	-0.001060051	0.732880131
TCTEX1D2 cg19600391	-0.000482962	0.938263798
TCTEX1D2 cg22505907	-0.048461628	0.039162609
TCTEX1D2 cg22624966	-0.005364519	0.38086105
TECR cg01542019	-0.053347889	6.17768E-06
TECR cg02644301	-0.001591312	0.530304186
TECR cg03162410	0.008673207	0.829611575
TECR cg03205495	-0.003284567	0.320608309
TECR cg04387237	-0.000626025	0.878994648
TECR cg06893491	-0.007668065	0.868461402
TECR cg08345979	-0.001345503	0.854942043
TECR cg08434594	-0.002092365	0.822406876
TECR cg10007692	-0.001836249	0.626665557
TECR cg13237829	0.001941892	0.620920638
TECR cg14339287	-0.002014582	0.770146742
TECR cg14898306	0.000132254	0.970975522
TECR cg15649193	-0.000854294	0.895374723
TECR cg15697902	-0.027676775	0.127744005
TECR cg15939937	-0.020607324	0.284734041
TECR cg16860821	0.003302685	0.922626025
TECR cg19263877	-0.010868024	0.019462249
TECR cg20630207	-0.006042411	0.450973668

TECR cg21511523	0.005015672	0.755373202
TECR cg23470272	-0.000232431	0.989656745
TECR cg23690893	0.013615943	0.669225435
TECR cg24143196	-0.093156921	0.0016585
TECR cg25685510	0.001286146	0.965534777
TK1 cg00715343	-0.020259293	0.014589528
TK1cg03291825	-0.016120323	0.688189135
TK1cg06098276	-0.090405141	0.00527884
TK1cg08115732	-0.107773914	9.81913E-09
TK1cg18767057	0.026200687	0.099786847
TK1cg20104688	0.000928909	0.824572655
TK1cg20740903	0.000780337	0.984833006
TK1cg21519872	-0.046391806	0.030479931
TK1cg25069807	-0.069749509	0.017842129
TK1cg26206461	-0.015096712	0.248538998
TMEM147 cg02035330	-0.001266886	0.825694531
TMEM147 cg05815685	0.000973966	0.939154027
TMEM147 cg08480906	-0.002647525	0.285971417
TMEM147 cg13869971	-0.001437063	0.775706911
TMEM147 cg19016517	-0.001775323	0.756619457
TMEM147 cg24080181	-0.002341937	0.362515323
TMEM54 cg06179485	-0.001294564	0.966831275
TMEM54 cg12598340	-0.02500381	0.444454094
TMEM54 cg15626665	-0.013060207	0.07657892
TMEM54 cg15999547	-0.025837167	0.033267018
TMEM54 cg17832212	-0.011983352	0.273051056
TNFRSF12A cg00510447	0.022112147	0.002092033
TNFRSF12A cg06097320	0.002804788	0.639740862
TNFRSF12A cg06209210	-0.000503523	0.939750298
TNFRSF12A cg08798492	0.008415637	0.502908795
TNFRSF12A cg15460516	0.002982906	0.670762198
TNFRSF12A cg20195987	0.000287644	0.95957928
TNFRSF12A cg26808293	0.007411615	0.255709844
TNK2 cg00190795	-0.061130224	2.54813E-06
TNK2 cg00359285	-0.048711405	0.004097883
TNK2 cg00514684	-0.005493314	0.604352193
TNK2 cg00544413	-0.00403224	0.444945453
TNK2 cg00651401	-0.011165611	0.692054494
TNK2 cg01006102	-0.106323158	3.68967E-10
TNK2 cg01766844	-0.006800507	0.68827686
TNK2 cg01792640	-0.040106261	0.041718847
TNK2 cg01962086	0.009081484	0.821193831
TNK2 cg02584969	0.000533409	0.948239105
TNK2 cg02633073	-0.000954543	0.835833665
TNK2 cg02920514	-0.02729491	0.000106188
TNK2 cg03207310	0.00022137	0.958670313
TNK2 cg03421964	-0.078177259	0.001225405
TNK2 cg04056669	-0.136411288	4.00681E-06
TNK2 cg04214520	-0.168729498	1.09713E-08

TNK2 cg04848502	-0.002929187	0.538874209
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TNK2 cg05802478	-0.031913608	0.045415113
TNK2 cg08048178	-0.007409729	0.751990649
TNK2 cg08119325	-0.080798979	2.1754E-07
TNK2 cg09459146	-0.007673814	0.293959213
TNK2 cg09628877	-0.137923154	1.77347E-07
TNK2 cg10542362	0.012810328	0.406682192
TNK2 cg10843210	-0.11729846	1.0641E-05
TNK2 cg11095099	-0.011070979	0.574101954
TNK2 cg11150667	-0.025096219	0.00343181
TNK2 cg14030878	-0.173524962	2.01481E-12
TNK2 cg15010544	-0.121592488	0.000101083
TNK2 cg15065340	0.041088773	0.179249469
TNK2 cg15854365	-0.168846021	2.04678E-13
TNK2 cg16047223	-0.006610901	0.036584579
TNK2 cg16229161	-0.188705417	1.47995E-08
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TNK2 cg16615155	-0.036904665	0.006346653
TNK2 cg16929775	-0.178654346	7.01504E-08
TNK2 cg17640485	-0.046303367	3.85393E-05
TNK2 cg17663253	-0.000599098	0.946675374
TNK2 cg17913255	-0.033196849	0.07605596
TNK2 cg18473978	-0.190388755	9.58394E-10
TNK2 cg18716096	-0.004016162	0.327401421
TNK2 cg18783792	-0.146392072	2.68767E-08
TNK2 cg19955173	0.018990703	0.595171658
TNK2 cg20697427	-0.038118961	0.000255407
TNK2 cg21008828	-0.011264788	0.3841559
TNK2 cg21425003	-0.008578455	0.040694025
TNK2 cg21438160	-0.178383496	5.09006E-08
TNK2 cg21553700	-0.146573678	5.82696E-07
TNK2 cg21642245	-0.022854731	0.498581368
TNK2 cg22558522	-0.00760024	0.432008359
TNK2 cg22762745	-0.005794011	0.546728661
TNK2 cg22809023	-0.004398861	0.487658159
TNK2 cg23258717	-0.215520077	2.60362E-09
TNK2 cg23548201	-0.071821666	3.74144E-07
TNK2 cg25152312	-0.023244641	0.21347456
TNK2 cg26033513	-0.029460455	0.000149838
TNK2 cg26686927	-0.025775023	0.073977204
TNK2 cg27228383	-0.194731824	4.54764E-09
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TOP2A cg03359285	-0.000672003	0.929632502
TOP2A cg05120042	-0.10138251	2.5625E-07
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TOP2A cg08817965	0.005114994	0.362758221
TOP2A cg09273772	-0.007258098	0.226391671
TOP2A cg11393025	-0.002559838	0.573079574

TOP2A cg14572634	-0.005116706	0.631804697
TOP2A cg15769921	0.002515295	0.712396225
TOP2A cg15797971	-0.002138725	0.719153243
TOP2A cg17504397	-0.007435752	0.210600379
TOP2A cg18314885	-0.015910659	0.482184682
TOP2A cg18998002	-0.010223815	0.019185391
TOP2A cg21499137	-0.003732112	0.49566176
TOP2A cg22912359	0.002262465	0.708417322
TOP2A cg22935319	-0.009527393	0.716152695
TOP2A cg25450986	0.001999006	0.637807239
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TOP2A cg26007540	-0.000270011	0.971999321
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TPI1 cg01213014	-0.001707674	0.733434564
TPI1 cg01441359	0.001739447	0.476180988
TPI1 cg01607849	0.001095247	0.934799372
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TPI1 cg03737815	0.001920024	0.466364648
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TPI1 cg11021764	0.001639567	0.644489355
TPI1 cg15325042	-0.053028257	0.037242128
TPI1 cg16426148	0.00011043	0.990952236
TPI1 cg17184604	-0.006187525	0.394136373
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TPI1 cg24672547	0.001906723	0.616815513
TPI1 cg26269324	-0.001375587	0.690209302
TPI1 cg26276120	-0.011565609	0.092281407
TPX2 cg02256410	-0.002343412	0.689561827
TPX2 cg03352975	-0.004472727	0.65512378
TPX2 cg09863659	0.001751269	0.777519834
TPX2 cg09877164	-0.000274423	0.931601603
TPX2 cg10476558	-0.00278693	0.531772763
TPX2 cg10480038	-0.001332406	0.731129004
TPX2 cg14326210	-0.008256771	0.405689556
TPX2 cg14878016	-0.000310429	0.931558288
TPX2 cg16338822	-0.000368536	0.933173313
TPX2 cg21838233	-0.000270194	0.94419613
TPX2 cg23807894	-0.001684879	0.933552529
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TUBA1B cg02585102	0.000756878	0.955223489
TUBA1B cg07420135	-0.001419514	0.649529135
TUBA1B cg11220397	-0.004479151	0.659146748
TUBA1B cg13709639	-0.009671089	0.573518744
TUBA1B cg14217534	-0.001788119	0.535224182

TUBA1B cg14483935	-0.083949679	1.81404E-06
TUBA1B cg16975985	0.001446301	0.900647336
TUBA1B cg18239763	0.004098542	0.482810991
TUBA1B cg19676328	0.00188401	0.762737979
TUBA1B cg21300561	0.001730855	0.713841582
TUBA1C cg21681289	5.16347E-05	0.986739652
TUBA1C cg23702657	-0.001738267	0.736037263
TUBA1C cg01418856	-0.000392645	0.97673317
TUBA1C cg01581974	0.000457713	0.971342896
TUBA1C cg02269388	0.001729706	0.920619524
TUBA1C cg04797936	0.045345514	0.002372239
TUBA1C cg15929573	0.003679786	0.717935584
TUBA1C cg16881676	0.204447898	8.68423E-11
TUBA1C cg17359076	0.000126141	0.985980643
TUBA1C cg19426128	-0.001563018	0.962778771
TUBA1C cg24296900	-0.000981302	0.964930317
TUBA1C cg25751371	0.023711132	0.106947579
TUBA1C cg27632435	-0.006814897	0.641596559
TUBB2A cg00231644	-0.001711449	0.92594018
TUBB2A cg13626842	-0.004112912	0.12990116
TUBB2A cg14462067	-0.006899902	0.223846596
TUBB2A cg15173079	-0.047227837	0.095268292
TUBB2A cg18049569	-0.013729606	0.29936445
TUBB2A cg21102926	-0.002664386	0.380876292
TUBB2A cg21526654	-0.003514565	0.318345589
TUBB2A cg22943782	0.000878386	0.869640206
TUBB2A cg24306277	-0.000348022	0.910515624
TUBB2A cg25433222	-0.031532404	0.194624748
TUBB2A cg27530015	-0.008541466	0.285154204
TUBB6 cg03507241	0.011703165	0.862968078
TUBB6 cg07307078	0.032675157	0.521993328
TUBB6 cg12879381	-0.003983138	0.740076149
TUBB6 cg16546503	-0.014768794	0.820314603
TUBB6 cg16808455	0.008704528	0.839577624
TUBB6 cg18348731	-0.004203778	0.841901267
TUBB6 cg22467216	-0.004298219	0.933962681
TUBB6 cg25836232	-0.052327969	0.100726406
UBE2C cg00242976	-0.025542855	0.004671881
UBE2C cg01661001	0.003024313	0.790363732
UBE2C cg02405476	-0.00921177	0.079698802
UBE2C cg02838589	-0.021444871	0.483910617
UBE2C cg03843031	-0.002388054	0.553379205
UBE2C cg03969725	-0.061161075	2.69928E-06
UBE2C cg10985576	-0.006377151	0.507224609
UBE2C cg12354270	-0.002081119	0.545457154
UBE2C cg13736875	0.000828364	0.854473813
UBE2C cg13853156	-0.003097949	0.647118436
UBE2C cg18038749	-0.001959578	0.688238776
UBE2C cg19197419	-0.008451887	0.226464987

UBE2C cg19222480	-0.002507863	0.489625108
UBE2C cg20034785	-0.00358848	0.55925416
UBE2C cg22082347	0.000187043	0.976522034
UBE2C cg22431438	-0.000208584	0.969844954
UBE2C cg23265604	-0.002307152	0.707904808
UBE2C cg23873448	-0.001148107	0.66528623
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UBE2T cg11819639	-0.0045249	0.326405863
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UBE2T cg15173196	-0.003289048	0.417333337
UBE2T cg16993579	0.0022868	0.890038798
UBE2T cg26399396	-0.004033196	0.458303963
UQCC cg04149172	-0.026995035	0.267938881
UQCC cg05298461	0.000840924	0.814671214
UQCC cg05389922	-0.007961795	0.708525986
UQCC cg08152058	-0.00185359	0.617978269
UQCC cg11281845	-0.00085207	0.809949206
UQCC cg12277998	0.002145988	0.774518977
UQCC cg12522898	-0.002019637	0.713865902
UQCC cg14752227	0.001371985	0.97508001
UQCC cg17046996	-0.000737955	0.954632857
UQCC cg20564458	0.000968684	0.852057795
UQCC cg24906992	-0.002558769	0.459924047
UQCC cg26475306	-0.001338521	0.781376833
UQCR cg01094684	0.000412856	0.928771629
UQCR cg01608030	-0.008861061	0.198468357
UQCR cg04156970	-1.74506E-05	0.997868503
UQCR cg04600406	-0.005211219	0.368473335
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UQCR cg10643550	0.039072667	0.139605858
UQCR cg11792664	-0.001677648	0.800624949
UQCR cg12235988	0.001344259	0.708077801
UQCR cg15696376	0.000470725	0.887753194
UQCR cg15974216	-0.004168428	0.784311598
UQCR cg22625420	-0.002191811	0.68376972
UQCR cg26571977	-0.006740276	0.361853805
UQCR cg26885578	-0.003143719	0.376013028
VIM cg00146951	0.001749894	0.59666091
VIM cg01003015	0.011687476	0.386677624
VIM cg01154046	-0.000397914	0.952343447
VIM cg02236650	0.047275817	0.031720108
VIM cg02746869	-0.000574293	0.962457038
VIM cg05151811	0.000304423	0.970996454
VIM cg06460869	0.002416117	0.717523548
VIM cg08918274	0.006742789	0.043627408
VIM cg11973177	0.00077578	0.9525822
VIM cg12155165	0.002579614	0.620079135

VIM cg12874092	-0.000101914	0.971833113
VIM cg13414916	-0.000201	0.952370325
VIM cg14260889	0.111397557	0.006415222
VIM cg14898116	0.010436576	0.623114328
VIM cg15363487	-0.000165692	0.988112765
VIM cg18514820	0.008665773	0.122465337
VIM cg19111999	0.017864288	0.005360718
VIM cg19170009	0.088135829	0.009152949
VIM cg20018469	0.00575962	0.308580289
VIM cg20198108	0.002972843	0.681250104
VIM cg20319091	-5.14925E-05	0.992246665
VIM cg23821329	0.048213006	0.00026877
VIM cg23912429	-0.000985823	0.867548989
VIM cg23991622	-0.006518866	0.491787833
VIM cg26063719	7.17121E-05	0.996403506
VIM cg26306372	-0.000523198	0.953992565
VIM cg26983469	0.001128359	0.905054189
VIM cg27313572	0.001601114	0.956683829
ZWINT cg00371482	0.0024496	0.885996111
ZWINT cg01021053	3.20074E-05	0.997916419
ZWINT cg02286335	-0.012905767	0.443632811
ZWINT cg06313381	0.000189397	0.993950712
ZWINT cg12758503	-0.005411067	0.677925067
ZWINT cg14642833	-0.000731641	0.963150992
ZWINT cg14859667	0.0022267	0.919634981
ZWINT cg14993200	-0.001964228	0.885235131
ZWINT cg18242377	-0.000549772	0.971150137
ZWINT cg18534872	-0.005538531	0.777519834
ZWINT cg21206959	-0.00204426	0.869561745
ZWINT cg26022932	-0.001551537	0.930183379

Transsynaptic signaling signature referring to Fig. 2a, modified from Südhof (Neu

Gene with CpG site	FDC in high-neural glioblastoma	p-value
RTN4R cg00384653	-0.163569391	1.94975E-10
RTN4R cg07543823	-0.002704419	0.473324917
RTN4R cg07159686	0.005083913	0.418604521
RTN4R cg25037841	-0.107083518	1.38228E-09
RTN4R cg22677723	-0.088826076	4.62418E-05
RTN4R cg16474791	-0.0378271	0.044526358
RTN4R cg17654470	-0.008344876	0.153435082
RTN4R cg08557686	-0.073962704	0.000658163
RTN4R cg07306604	0.01545919	0.344251146
RTN4R cg09784932	0.00253102	0.718310769
RTN4R cg12393104	-0.037681387	0.053041456
RTN4R cg03475420	-0.017258915	0.163350774
RTN4R cg06950987	-0.010577435	0.557488406
RTN4R cg13397314	-0.018913316	0.251056554
RTN4R cg18293555	-0.108672173	4.47977E-11
RTN4L1 cg14571092	-0.002093438	0.944499614
RTN4L1 cg15524101	-0.011296758	0.143492499
RTN4L1 cg08457620	-0.015623864	0.019664367
RTN4L1 cg26589485	-0.065101821	0.001004234
RTN4L1 cg04207549	-0.001436756	0.865173265
RTN4L1 cg17142404	-0.004694868	0.6250197
RTN4L1 cg12967327	-0.047972363	5.92049E-06
RTN4L1 cg27299033	0.024126915	0.298772106
RTN4L1 cg25813630	0.01434334	0.767419742
RTN4L1 cg21802919	-0.008764141	0.589586619
RTN4L1 cg05879505	-0.017007893	0.384833114
RTN4L1 cg05550893	0.003023605	0.676283177
RTN4L1 cg24948079	-0.00898084	0.828517749
RTN4L1 cg26365813	0.100362235	1.30704E-05
RTN4L1 cg08454053	-0.240042615	1.09841E-13
RTN4L1 cg23630423	-0.007328024	0.435703131
RTN4L1 cg20899146	-0.010714353	0.129490048
RTN4L1 cg27466709	-0.001080031	0.97263183
RTN4L1 cg01019770	0.000381157	0.950671923
RTN4L1 cg23669611	-0.075411963	0.001002527
RTN4L1 cg11251135	-0.004722523	0.692376084
RTN4L1 cg08197956	-0.083421339	0.001791909
RTN4L1 cg23094620	-0.001723671	0.954903472
RTN4L1 cg03214325	-0.150356281	1.12873E-06
RTN4L1 cg22791545	-0.048514263	0.024523234
RTN4L1 cg26699755	-0.001769774	0.900233057
RTN4L1 cg19550533	0.013206738	0.540624323
RTN4L1 cg06791321	-0.010481482	0.140859906

RTN4L1 cg07471768	-0.013004228	0.219802477
RTN4L1 cg14249528	-0.009079157	0.535249962
RTN4L1 cg18059383	-0.094528639	0.000122322
RTN4L1 cg14769786	0.017982035	0.699193461
RTN4L1 cg23289581	-0.106816381	0.000224799
RTN4L1 cg02064158	0.020129041	0.136267975
RTN4L1 cg04584833	-0.041154555	0.000793731
RTN4L1 cg26772766	0.048018877	0.111762575
RTN4L1 cg20641798	-0.021054591	0.256271616
RTN4L1 cg05861697	-0.031270109	0.124762307
RTN4L1 cg08875357	-0.031020027	0.343418755
RTN4L1 cg04743758	-0.095097305	0.000141019
RTN4L1 cg10479452	-0.02997131	0.067700991
RTN4L1 cg11398400	-0.006857137	0.392167209
RTN4L1 cg19619387	-0.080097754	2.83064E-05
RTN4L1 cg07061728	-0.006752758	0.847154062
RTN4L2 cg08924696	-0.004594952	0.671421409
RTN4L2 cg12528597	-0.006040687	0.797422824
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ODZ2 cg19913582	-0.001041844	0.874322035
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NRXN3 cg22908679	0.015533593	0.35839617
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NRXN3 cg24020215	0.079809449	0.04488768
NRXN3 cg24197470	-0.003549642	0.693975129
NRXN3 cg25564511	-0.024672647	0.067314097
EFN2B cg00241273	-0.084633733	0.011724131
EFN2B cg02441149	-0.001682171	0.928691925
EFN2B cg03929741	-0.000242116	0.981081656
EFN2B cg04321866	0.00797203	0.282306342
EFN2B cg05040544	0.000656304	0.915637252
EFN2B cg05493945	0.01033766	0.471400783
EFN2B cg05876564	-0.078543536	0.064472108
EFN2B cg06193439	-0.001841815	0.74800332
EFN2B cg06784108	-0.004998344	0.787900845
EFN2B cg06826155	0.056394152	0.070665119
EFN2B cg11173146	-0.002081738	0.825659813
EFN2B cg11196529	-0.028121827	0.620687015
EFN2B cg11220502	0.040529637	0.108591132
EFN2B cg12053155	0.00545394	0.650983134
EFN2B cg12674145	-0.001842116	0.9138715
EFN2B cg13179469	0.000881702	0.947367493
EFN2B cg14363981	0.009851043	0.397797952
EFN2B cg17011964	-0.11731264	0.002506895
EFN2B cg17906168	-0.093648467	5.07315E-07
EFN2B cg18158859	-0.051306079	0.308344274
EFN2B cg18771357	-0.000730228	0.961269374
EFN2B cg19938857	0.002066543	0.7769531
EFN2B cg20256153	0.033549064	0.002093283
EFN2B cg22114393	-0.00086411	0.942357692
EFN2B cg22179913	0.023524928	0.548464598
EFN2B cg24929737	-0.003133427	0.84260429
EFN2B cg25634175	-0.063312142	2.13094E-08
EFN2B cg25814649	-0.031777306	0.463465974
EFN2B cg26138978	-0.002862178	0.967604645
EFN2B cg26273417	0.091390186	2.8027E-06
EFN2B cg27017630	-0.021898491	0.112680531
EFN2B cg27226949	6.45625E-06	0.999707344

Neuronal signaling signature referring to Fig. 2a, modified from Venkatarama

Gene with CpG site	FDC in high-neural glioblastoma	p-value
GAP43 cg00216361	0.002160208	0.417707642
GAP43 cg01710607	-0.259086427	1.76834E-18
GAP43 cg03430502	-0.009590992	0.007127563
GAP43 cg05773207	-0.01098219	0.614582823
GAP43 cg05963821	0.005584014	0.23062102
GAP43 cg07863831	0.029287413	0.06143482
GAP43 cg10960118	-0.019828047	0.386205879
GAP43 cg11077657	-0.001389792	0.825182332
GAP43 cg11153239	-0.011915498	0.076421082
GAP43 cg12146703	-0.006456773	0.525109428
GAP43 cg13592373	-0.049917774	0.018175919
GAP43 cg14203525	0.001706367	0.558073643
GAP43 cg15143702	-0.088740817	1.91198E-06
GAP43 cg18849015	0.002829013	0.39649807
GAP43 cg19676835	0.000641705	0.878091622
GAP43 cg19836595	-0.027471916	0.003589394
GAP43 cg20914508	-0.007898534	0.001834675
GAP43 cg26783404	-0.043914503	0.244925411
GAP43 cg27608911	-0.011095859	0.024189657
GJA1 cg01493740	-0.002781633	0.788341899
GJA1 cg03181829	0.003895811	0.472272492
GJA1 cg10446179	0.000185843	0.966074645
GJA1 cg11486295	-0.136116895	3.54198E-15
GJA1 cg11590170	-0.009367987	0.292757126
GJA1 cg17160382	0.010539754	0.226109728
GJA1 cg17498101	3.23386E-06	0.999590775
GJA1 cg23699648	0.104176837	4.81048E-05
GJA1 cg24375465	-0.120116432	1.3509E-13
GRIA1 cg07633435	-0.151758428	4.01658E-09
GRIA1 cg08578734	-0.012793132	0.014838173
GRIA1 cg13583454	-0.17212038	4.95064E-09
GRIA1 cg16281600	-0.094676934	0.001431868
GRIA1 cg17020834	0.004054481	0.461276502
GRIA1 cg17987968	-0.064820218	0.006686229
GRIA1 cg20668321	-0.21041883	3.03028E-10
GRIA1 cg21146273	-0.095785641	0.000423115
GRIA1 cg22798121	-0.053159219	0.011738232
GRIA1 cg23165500	-0.13170471	2.3583E-10
GRIA1 cg26343183	0.022290145	0.269770752
GRIA2 cg00463631	0.001405683	0.828101379
GRIA2 cg00699993	-0.001384049	0.57469655
GRIA2 cg01041222	-0.008841612	0.006360613
GRIA2 cg01942962	-0.008917619	0.053016709

GRIA2 cg02757172	-0.071557833	4.70302E-07
GRIA2 cg08475096	-0.005409615	0.085695886
GRIA2 cg15425280	-0.009837536	0.006492941
GRIA2 cg16777106	-0.013403004	0.261409014
GRIA2 cg17605476	-0.014862348	6.90655E-05
GRIA2 cg22597733	-0.006590266	0.011513929
GRIA2 cg23734973	-0.012372876	0.001697911
GRIA2 cg24452260	-0.002297749	0.521065782
GRIA2 cg25148589	-0.01830372	0.00010535
GRIA2 cg26739975	-0.020256668	0.012204558
GRIA4 cg00343633	-0.002352325	0.684459277
GRIA4 cg00629688	-0.0937245	2.45131E-05
GRIA4 cg01111718	-0.119509724	1.58697E-14
GRIA4 cg03225817	0.004126215	0.488704456
GRIA4 cg03243226	-0.004974943	0.473359946
GRIA4 cg04747226	-0.001599855	0.899659663
GRIA4 cg05082609	-0.021759707	0.064248237
GRIA4 cg05087008	-0.211463343	1.51082E-07
GRIA4 cg06119894	-0.018249474	0.200818972
GRIA4 cg07592190	0.033934743	0.29570422
GRIA4 cg07972135	0.013899631	0.361949347
GRIA4 cg09147777	-0.007133644	0.249093769
GRIA4 cg09742895	-0.19149728	2.45253E-14
GRIA4 cg09974063	-0.011929026	0.10687749
GRIA4 cg09980522	-0.004992785	0.384030068
GRIA4 cg11067712	-0.002815147	0.382570623
GRIA4 cg11308643	-0.00767191	0.445576857
GRIA4 cg12754421	-0.005015184	0.509728282
GRIA4 cg15603568	-0.004181706	0.285962218
GRIA4 cg19343464	-0.003377691	0.769035573
GRIA4 cg20073686	-0.0060069	0.251650195
GRIA4 cg20306837	0.003256994	0.481766719
GRIA4 cg21217024	0.001057915	0.771112503
GRIA4 cg21719418	-0.129692321	1.00223E-13
GRIA4 cg23559689	-0.003973512	0.508051668
GRIA4 cg23676682	-0.000229298	0.976190919
GRIA4 cg27368776	-0.037478356	0.000659595
GRM1 cg03478199	-0.121679084	0.000887107
GRM1 cg06015218	-0.057134276	0.019000821
GRM1 cg06121352	-0.184765793	2.07636E-08
GRM1 cg06254938	-0.217607604	1.37771E-11
GRM1 cg07218663	-0.027242124	0.061077624
GRM1 cg07224114	-0.142635326	3.43176E-08
GRM1 cg08076125	-0.062918683	0.024447264
GRM1 cg08875948	0.008868627	0.85528093
GRM1 cg08958294	-0.053514313	0.02384755
GRM1 cg09179079	-0.031444941	0.014106782
GRM1 cg09423283	0.037860475	0.215595718
GRM1 cg09558195	-0.008417009	0.76906891

GRM1 cg10904109	-0.022821841	0.467103532
GRM1 cg13371951	-0.014161888	0.574100923
GRM1 cg13722123	-0.05130698	0.096482728
GRM1 cg13830799	-0.093750158	0.001944983
GRM1 cg14526297	-0.008219781	0.06816601
GRM1 cg16671069	-0.027376948	0.438544892
GRM1 cg17199007	-0.007485839	0.480124381
GRM1 cg19512268	-0.054850035	0.21656771
GRM1 cg19645248	-0.106893656	3.48577E-07
GRM1 cg21714266	0.073943351	0.046560464
GRM1 cg21725954	-0.019729909	0.428221839
GRM1 cg23696752	-0.023340768	0.452933871
GRM1 cg23753795	-0.168583236	7.03444E-14
GRM1 cg24266105	-0.058586578	0.003651697
GRM1 cg26256158	-0.004118379	0.759532618
GRM1 cg26875958	-0.117295166	4.55709E-10
GRM1 cg27642554	-0.033790759	0.287321565
GRM4 cg00070899	-0.118098163	3.12903E-07
GRM4 cg00143321	-0.00633863	0.208879882
GRM4 cg00369202	-0.16217027	5.7929E-10
GRM4 cg00898486	-0.118200949	2.25395E-07
GRM4 cg01081636	-0.132087187	1.80159E-08
GRM4 cg01090161	-0.210520059	1.92792E-15
GRM4 cg01140008	-0.161726202	1.34775E-07
GRM4 cg01242196	-0.173967626	1.15895E-12
GRM4 cg03412431	-0.011425121	0.012750455
GRM4 cg03723730	-0.075831598	0.002229662
GRM4 cg05745748	-0.008634077	0.03918362
GRM4 cg05800983	-0.039413413	0.111397352
GRM4 cg06068039	-0.151636963	7.05257E-09
GRM4 cg06112910	-0.070932595	5.01954E-07
GRM4 cg06456864	-0.052981669	0.004276194
GRM4 cg06898306	-0.211703673	3.93473E-25
GRM4 cg07699277	-0.007706223	0.482721422
GRM4 cg07735790	-0.009643776	0.682756735
GRM4 cg08289346	-0.011814591	0.754502321
GRM4 cg08969344	-0.227157136	1.01331E-14
GRM4 cg09106984	-0.162103538	7.89916E-11
GRM4 cg09657185	-0.044656299	0.028468246
GRM4 cg10083824	-0.029477764	0.492006313
GRM4 cg10270430	-0.049455938	0.066257004
GRM4 cg12008034	-0.092009319	8.91575E-05
GRM4 cg12013817	-0.025836377	0.060882077
GRM4 cg13344206	-0.11935417	3.11754E-07
GRM4 cg15884992	-0.060371029	0.005282731
GRM4 cg16739976	-0.084994484	9.05653E-06
GRM4 cg16916688	-0.099716587	0.000731875
GRM4 cg17107112	-0.062546309	8.19045E-07
GRM4 cg17450585	-0.091376308	9.94215E-06

GRM4 cg17762073	-0.058288459	0.00715518
GRM4 cg18403569	-0.043991037	0.01229403
GRM4 cg19471040	-0.069545066	0.031796964
GRM4 cg19999705	-0.009057552	0.754502321
GRM4 cg20151098	-0.025514198	0.00019797
GRM4 cg20490197	-0.087226066	9.44947E-06
GRM4 cg20772037	-0.170046947	1.16218E-08
GRM4 cg21599324	-0.100452044	1.59934E-08
GRM4 cg21797718	-0.050486447	0.038787205
GRM4 cg22188571	-0.151749201	1.90229E-11
GRM4 cg22484822	-0.071253561	2.9759E-07
GRM4 cg22827707	-0.01758895	0.005094544
GRM4 cg22971402	-0.207748277	4.67487E-13
GRM4 cg23321702	-0.180907785	2.47283E-12
GRM4 cg24082276	-0.011329932	0.729246104
GRM4 cg24469001	-0.198038965	2.96051E-15
GRM4 cg25988118	-0.015631512	0.627741446
GRM4 cg26424956	0.01407155	0.643236817
GRM4 cg27371466	-0.141039569	1.17477E-07
KCNN4 cg01424145	-0.031757952	0.015804254
KCNN4 cg01447572	-0.072850167	2.11212E-05
KCNN4 cg03731131	-0.054455535	0.049867038
KCNN4 cg04833845	-0.109605522	6.98316E-17
KCNN4 cg07756483	-0.008627508	0.048077996
KCNN4 cg10767665	-0.112232543	1.12951E-06
KCNN4 cg11624345	-0.10165581	0.000341148
KCNN4 cg14066757	-0.016462869	0.313611476
KCNN4 cg15977816	-0.027447837	0.041976459
KCNN4 cg18506018	-0.051023331	9.18501E-10
KCNN4 cg22904711	-0.08217768	0.000454803
KCNN4 cg26504422	-0.062946856	0.008961287
KCNN4 cg26890181	-0.028732752	0.020270245
KCNN4 cg26960896	-0.044758018	0.005541364
CTNND1 cg03813899	-0.010923239	0.523485939
CTNND1 cg06291428	0.012275871	0.322770902
CTNND1 cg09878888	-0.004167905	0.326563053
CTNND1 cg10831212	-0.002134478	0.688275465
CTNND1 cg11643991	-0.001485791	0.816420098
CTNND1 cg15068709	-0.099493969	2.49249E-06
CTNND1 cg16127573	-0.025102992	0.063253955
CTNND1 cg17345994	-0.204587885	1.15348E-15
CTNND1 cg18213545	-0.003998748	0.258781416
CTNND1 cg19210276	-0.005319634	0.332730467
CTNND1 cg19752551	-0.241684588	1.02152E-24
CTNND1 cg21272996	-0.002802617	0.584318545
THBS1 cg00027995	-0.213633043	1.23684E-11
THBS1 cg00836101	-0.082997055	0.00060386
THBS1 cg01637789	-0.047419731	0.003568321
THBS1 cg02291532	-0.175312769	5.6754E-11

THBS1 cg03196766	-0.132790048	4.52718E-06
THBS1 cg04051458	-0.005073449	0.554463337
THBS1 cg04827020	-0.205978433	7.8537E-21
THBS1 cg04888085	-0.015581265	0.148183749
THBS1 cg05886626	-0.00959143	0.739924766
THBS1 cg07276078	0.006147256	0.304048184
THBS1 cg08433504	-0.070448863	1.30291E-05
THBS1 cg09291834	0.00335148	0.730416233
THBS1 cg10078511	-0.067185095	9.20509E-05
THBS1 cg10548034	0.00387376	0.238037029
THBS1 cg10576133	-0.024452004	2.62162E-07
THBS1 cg12154418	-0.009461984	0.685870799
THBS1 cg12484072	0.001791023	0.656492
THBS1 cg13360562	-0.015728004	0.013045136
THBS1 cg13375187	-0.003454561	0.501233706
THBS1 cg13458407	0.00263783	0.883836151
THBS1 cg13463208	0.00281893	0.425642611
THBS1 cg14182667	-0.005987735	0.562747134
THBS1 cg14519850	0.007871194	0.517833352
THBS1 cg15161296	-0.013611524	0.042812336
THBS1 cg18234606	-0.129141163	2.11616E-06
THBS1 cg19570574	-0.02100468	0.073911634
THBS1 cg20043291	-0.005914958	0.596228526
THBS1 cg22580173	0.001134327	0.92283739
THBS1 cg23116540	-0.07817895	4.74352E-05
THBS1 cg23849826	-0.060244052	3.92179E-05
THBS1 cg25499543	-0.06310661	0.000316254
THBS1 cg25503381	-0.064681873	0.000148956
TTYH1 cg00558215	0.007562264	0.400484219
TTYH1 cg00813890	-0.008846858	0.183821647
TTYH1 cg02623991	-0.008447467	0.011277057
TTYH1 cg09474331	-0.00220203	0.727980426
TTYH1 cg10187559	-0.093855503	3.75816E-07
TTYH1 cg14814062	-0.043593604	0.001347461
TTYH1 cg15241920	0.005157608	0.414888588
TTYH1 cg15723536	0.016533162	0.024801481
TTYH1 cg15972301	-0.053519476	2.191E-05
TTYH1 cg20230372	0.004694511	0.612912157
TTYH1 cg20439295	-0.025157403	0.005169251
TTYH1 cg21287054	-0.027860128	0.100732522
TTYH1 cg21883754	0.000953189	0.78972954
TTYH1 cg22206370	-0.178235848	2.61253E-11
TTYH1 cg23695687	0.006548428	0.204270571
TTYH1 cg24687102	-0.033955528	0.162678037
HSPA5 cg01733783	-0.009615123	0.002511237
HSPA5 cg10997785	-0.058735772	0.000177855
HSPA5 cg13769004	-0.002944927	0.387728485
HSPA5 cg14294444	0.001083647	0.762010418
BDNF cg00298481	-0.0007783	0.802263288

BDNF cg01225698	-0.023347552	0.448425841
BDNF cg01583131	-0.079801494	0.008541296
BDNF cg01636003	-0.003393157	0.221916389
BDNF cg01642653	-0.025851388	0.399412129
BDNF cg02527472	-0.047100336	0.084941884
BDNF cg02613510	-0.097499624	0.001345417
BDNF cg03167496	-0.014494131	0.611164738
BDNF cg03747251	-0.00753236	0.551905897
BDNF cg03984780	-0.006151117	0.03051808
BDNF cg04106006	-0.007001098	0.889372737
BDNF cg04481212	-0.000298809	0.940072086
BDNF cg04672351	-0.001709511	0.43782095
BDNF cg05189570	-0.080699697	5.77462E-11
BDNF cg05218375	-0.008521356	0.082481117
BDNF cg05733135	-0.019445033	0.198732768
BDNF cg05818894	-0.007180117	0.459315357
BDNF cg06025631	-0.000704742	0.916576785
BDNF cg06046431	-0.04642876	0.03986164
BDNF cg06260077	0.007391204	0.430701617
BDNF cg06684850	-0.033224297	0.39039252
BDNF cg06816235	0.013211781	0.715547632
BDNF cg06979684	-0.040136789	0.037093702
BDNF cg06991510	0.001064034	0.789988073
BDNF cg07159484	0.002003335	0.755096665
BDNF cg07238832	-0.031708665	0.008002832
BDNF cg07704699	-0.047229239	0.010274325
BDNF cg08362738	-0.002255605	0.301859987
BDNF cg08388004	-0.013726092	0.002801484
BDNF cg09492354	-0.001637935	0.557909819
BDNF cg09606766	-0.001801528	0.652840898
BDNF cg10022526	0.012125721	0.690414601
BDNF cg10558494	-0.00138992	0.869721934
BDNF cg10635145	-0.092842502	0.003139264
BDNF cg11241206	-0.002083372	0.70576212
BDNF cg11718030	-0.047474508	0.194747456
BDNF cg11806762	-0.095742595	0.000178751
BDNF cg12448003	-0.003826584	0.883161786
BDNF cg13974632	-0.014283198	0.417133464
BDNF cg14291693	-0.124649778	8.55091E-11
BDNF cg14589148	-0.007091829	0.73582704
BDNF cg15014679	-0.226345125	6.04431E-17
BDNF cg15313332	0.008342035	0.573090265
BDNF cg15462887	-0.01401125	0.69601459
BDNF cg15688670	-0.0013428	0.682980226
BDNF cg15710245	-0.008415424	0.09905654
BDNF cg15914769	-0.001028228	0.690688888
BDNF cg16257091	-0.028366608	0.335709814
BDNF cg17413943	-0.010572907	0.055150561
BDNF cg18117895	0.001227892	0.818499274

BDNF cg18354203	-0.337982457	2.08378E-37
BDNF cg18595174	-0.024211822	0.330418904
BDNF cg20108357	-0.134330426	1.42622E-09
BDNF cg20340655	0.00156736	0.791941417
BDNF cg20954537	0.001005304	0.839469537
BDNF cg21010859	0.002277795	0.690442567
BDNF cg22043168	-0.033808445	0.059226322
BDNF cg23426002	-0.041353623	4.88695E-05
BDNF cg23497217	-0.000477465	0.910411408
BDNF cg23619332	-0.004768524	0.073343066
BDNF cg23947039	-0.001943328	0.763526094
BDNF cg24065044	-0.001722651	0.863695235
BDNF cg24249411	-0.046882007	0.130008164
BDNF cg24377657	-0.003725759	0.792044842
BDNF cg24650785	-0.016358801	0.564339899
BDNF cg25328597	-0.002149288	0.45371341
BDNF cg25381667	0.011413583	0.541908531
BDNF cg25412831	-0.014942703	0.746147456
BDNF cg25457956	0.01839504	0.361120777
BDNF cg25962210	-0.011269341	0.002128921
BDNF cg26057780	0.005913223	0.674635567
BDNF cg26840770	-0.003402862	0.314825821
BDNF cg26949694	0.017042802	0.62237618
BDNF cg27193031	-0.004134262	0.400462748
BDNF cg27351358	-0.088072122	0.000961796

Patient-derived xenograft data referring to Fig. 3e			
PDX line	Idat-file tissue	Neural signature score	Neural subgroup
GS-8	204894630041_R08C01	0.388	Low
GS-10	204894630081_R04C01	0.385	Low
GS-73	203282450110_R03C01	0.335	Low
GS-57	203282450014_R05C01	0.569	High
GS-74	205735130138_R05C01	0.528	High
GS-75	206466470159_R03C01	0.415	High
GS-101	203939360028_R02C01	0.474	High

Year of surgery	Patients age at surgery	Sex
2006	67	female
2005	63	female
2016	66	male
2014	59	male
2016	73	male
2016	73	male
2019	77	female

