

						All Glioma		GBM		AA		A2		MOA		Oligo		IDH mutant ^b	
SNP	Position	Nearest Gene	Genic/intergenic	Ref	Minor Allele	OR ^a	p	OR ^a	p	OR ^a	p	OR ^a	p	OR ^a	p	OR ^a	p	OR ^a	p
rs11552449	1:114448389	DCLRE1B	exonic (nonsynonymous)	Bethke, 2008	A	1.035	0.628	1.028	0.751	0.975	0.838	1.188	0.272	1.050	0.738	0.975	0.853	0.943	0.645
rs3761936	1:114449662	DCLRE1B	exonic (synonymous)	Bethke, 2008	G	1.026	0.721	1.016	0.853	0.969	0.801	1.181	0.289	1.045	0.762	0.969	0.815	0.937	0.606
rs1805087	1:237048500	MTR	exonic (nonsynonymous)	Bethke, 2008; Semmler, 2006	G	1.067	0.348	1.040	0.650	1.095	0.443	1.046	0.785	1.086	0.551	0.928	0.571	0.982	0.880
rs1047840	1:242042301	EXO1	exonic (nonsynonymous)	Chang, 2008	A	1.094	0.101	1.109	0.134	1.141	0.163	1.096	0.478	1.014	0.902	1.078	0.471	1.057	0.558
rs1776148	1:242042545	EXO1	exonic (nonsynonymous)	Chang, 2008	A	1.064	0.258	0.986	0.836	1.178	0.088	1.106	0.449	1.085	0.477	1.183	0.111	0.983	0.858
rs10495960	2:48960032	LHCGR	intronic	Chang, 2008	A	0.946	0.418	1.022	0.803	0.860	0.219	0.954	0.773	0.865	0.300	0.990	0.938	0.959	0.730
rs3755377	2:70732852	TGFA	intronic	Schwartzbaum, 2010	G	1.022	0.689	1.111	0.119	0.974	0.775	0.939	0.620	0.964	0.740	0.913	0.368	0.941	0.511
rs1045485	2:202149589	CASP8	exonic (nonsynonymous)	Bethke, 2008; Rajaraman, 2007	C	0.997	0.972	0.841	0.101	1.148	0.310	1.318	0.136	1.250	0.143	0.994	0.967	1.105	0.474
rs828704	2:216993611	XRCC5	intronic	Liu, 2007	C	1.053	0.434	1.044	0.600	1.063	0.590	1.063	0.686	0.994	0.964	1.182	0.166	1.113	0.347
rs3770502	2:217045059	XRCC5	intronic	Liu, 2007	A	0.998	0.982	1.070	0.537	1.111	0.484	0.728	0.171	0.687	0.065	0.971	0.862	0.980	0.895
rs3218634	3:121151812	POLQ	exonic (nonsynonymous)	Chang, 2008	C	0.944	0.570	0.962	0.762	0.967	0.852	0.889	0.641	0.931	0.734	0.895	0.576	1.008	0.964
rs532411	3:121186422	POLQ	exonic (nonsynonymous)	Chang, 2008	A	0.947	0.595	0.973	0.834	0.977	0.898	0.889	0.637	0.903	0.634	0.875	0.499	0.963	0.832
rs3218651	3:121208176	POLQ	exonic (nonsynonymous)	Chang, 2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
rs500687	3:138460203	PIK3CB	intronic	Schwartzbaum, 2010	G	0.950	0.330	0.968	0.623	1.019	0.836	0.908	0.440	0.943	0.591	0.878	0.195	0.842	0.065
rs11920625	3:142261339	ATR	intronic	Bethke, 2008	A	0.911	0.296	0.938	0.566	1.029	0.850	0.694	0.116	0.843	0.359	0.770	0.145	0.850	0.304
rs12645561	4:178260872	NIEL3	intronic	Bethke, 2008	A	0.988	0.883	1.017	0.868	1.020	0.889	1.082	0.668	0.815	0.234	0.984	0.918	1.070	0.626
rs4444903	4:110834110	EGF	5' untranslated region	Wang, 2010	G	0.928	0.171	0.956	0.505	0.801	0.020	0.850	0.200	0.896	0.315	0.926	0.445	0.911	0.380
rs2731858	5:82514528	XRCC4	intronic	Liu, 2008	G	1.049	0.452	1.021	0.795	1.198	0.090	1.299	0.070	0.905	0.467	1.012	0.923	0.918	0.460
rs2230641	5:86695274	CCNH	exonic (nonsynonymous)	Chang, 2008	G	0.888	0.063	0.966	0.670	0.810	0.073	0.775	0.112	0.922	0.544	0.836	0.156	0.999	0.994
rs1800925	5:131992809	IL13	integenic	Schwartzbaum, 2005; Schwartzbaum, 2007; Wiemels, 2007	A	1.004	0.953	1.041	0.628	0.966	0.771	1.477	0.010	0.962	0.780	0.762	0.050	0.855	0.208
rs1295686	5:131995843	IL13	intronic	Schwartzbaum, 2005; Schwartzbaum, 2007; Wiemels, 2007; Ruan, 2011	A	0.969	0.633	0.993	0.929	1.019	0.864	1.120	0.457	1.029	0.833	0.728	0.017	0.915	0.452
rs2243248	5:132008644	IL4	intergenic	Schwartzbaum, 2005; Schwartzbaum, 2007; Wiemels, 2007; Ruan, 2011	C	1.015	0.888	1.022	0.863	1.020	0.912	1.141	0.585	0.978	0.919	0.891	0.580	0.741	0.137
rs2596503	6:31320810	HLA-B	intronic	Schwartzbaum, 2010	A	0.929	0.265	0.881	0.129	0.954	0.675	0.781	0.129	1.026	0.845	1.032	0.801	0.996	0.968
rs3130922	6:31461089	MICB	intergenic	Schwartzbaum, 2010	A	0.948	0.339	0.920	0.238	0.980	0.834	0.807	0.113	1.104	0.375	0.931	0.502	0.951	0.602

rs707938	6:31729359	MSH5	exonic (synonymous)	Bethke, 2008; Semmler, 2006	G	0.990	0.860	1.039	0.590	0.783	0.019	1.299	0.050	0.830	0.124	1.106	0.357	0.980	0.837
rs2160138	7:7755797	RPA3	intronic	Bethke, 2008; Semmler, 2006	G	1.059	0.280	1.062	0.370	1.068	0.475	1.003	0.984	1.049	0.659	1.159	0.136	1.169	0.092
rs1800795	7:22766645	IL6	integenic	Brenner, 2007	C	1.033	0.541	0.996	0.950	1.178	0.074	0.990	0.935	0.942	0.590	1.081	0.448	1.111	0.261
rs6947023	7:63896109	ZNF680	intergenic	Bethke, 2008; Semmler, 2006	G	1.086	0.455	1.069	0.624	1.043	0.826	0.941	0.823	1.323	0.191	0.998	0.992	0.997	0.986
rs4253211	10:50678317	ERCC6	exonic (nonsynonymous)	Chang, 2008; Liu, 2009	G	1.068	0.455	0.987	0.906	1.056	0.728	0.991	0.966	1.296	0.138	1.151	0.389	1.248	0.141
rs12917	10:131506283	MGMT	exonic (nonsynonymous)	Felini, 2007; Wiencke, 2005; Liu, 2009	A	1.105	0.202	1.039	0.696	1.083	0.562	0.975	0.896	1.243	0.166	1.194	0.228	1.019	0.896
rs9344	11:69462910	CCND1	exonic (synonymous)	Rajaraman, 2007	A	1.106	0.062	1.115	0.109	1.035	0.716	1.149	0.278	1.085	0.469	1.079	0.456	1.061	0.532
rs1801516	11:108175462	ATM	exonic (nonsynonymous)	Chang, 2008	A	0.995	0.943	0.928	0.448	1.066	0.643	1.116	0.544	1.277	0.119	0.936	0.667	1.201	0.177
rs11614913	12:54385599	MIR196A2	intergenic	Dou, 2010	A	0.995	0.923	0.979	0.756	1.199	0.051	0.700	0.007	1.074	0.512	0.921	0.423	0.989	0.910
rs769412	12:69233215	MDM2	exonic (synonymous)	Rajaraman, 2007	G	1.085	0.473	1.028	0.846	1.213	0.315	1.130	0.652	1.437	0.115	1.079	0.726	1.282	0.202
rs5744934	12:133220526	POLE	exonic (nonsynonymous)	Chang, 2008	G	0.963	0.637	0.974	0.792	0.935	0.634	0.911	0.633	1.271	0.127	0.807	0.182	0.932	0.620
rs1805011	16:27373872	IL4R	exonic (nonsynonymous)	Wiemels, 2007	C	0.979	0.805	1.008	0.941	0.925	0.604	1.246	0.252	0.874	0.473	1.074	0.659	0.976	0.872
rs1805012	16:27373964	IL4R	exonic (nonsynonymous)	Wiemels, 2007	G	0.952	0.573	0.976	0.826	0.891	0.457	1.207	0.340	0.837	0.357	1.097	0.572	0.978	0.884
rs7216389	17:38069949	GSDMB	intronic	Dobbins, 2011	A	0.982	0.739	0.976	0.721	0.915	0.349	0.958	0.739	1.127	0.284	0.990	0.918	0.937	0.496
rs1799966	17:41223094	BRCA1	exonic (nonsynonymous)	Chang, 2008	G	0.976	0.676	0.955	0.524	1.008	0.938	0.922	0.543	0.903	0.394	1.049	0.653	0.982	0.850
rs799917	17:41244936	BRCA1	exonic (nonsynonymous)	Chang, 2008	A	0.987	0.812	0.956	0.528	1.041	0.680	0.904	0.447	0.902	0.383	1.067	0.539	0.997	0.978
rs12450550	17:48456193	EME1	exonic (nonsynonymous)	Chang, 2008	G	1.041	0.492	1.038	0.611	1.082	0.435	0.925	0.581	1.089	0.480	1.085	0.461	1.026	0.804
rs243341	19:4405106	CHAF1A	intronic	Bethke, 2008; Semmler, 2006	G	0.997	0.956	1.042	0.580	0.865	0.168	1.186	0.213	1.039	0.758	1.013	0.907	0.986	0.894
rs105038	19:4414710	CHAF1A	intronic	Bethke, 2008; Semmler, 2006	A	0.995	0.938	1.039	0.608	0.862	0.157	1.205	0.172	1.027	0.830	1.013	0.907	0.983	0.866
rs243356	19:4415452	CHAF1A	intronic	Bethke, 2008; Semmler, 2006	A	0.998	0.970	1.076	0.354	0.822	0.085	1.158	0.310	1.113	0.401	0.947	0.652	0.977	0.834
rs9352	19:4442336	CHAF1A	exonic (nonsynonymous)	Chang, 2008	G	1.026	0.628	1.099	0.156	1.042	0.658	0.804	0.088	0.886	0.275	0.896	0.279	0.910	0.314
rs2992	19:4443046	CHAF1A	3' untranslated region	Chang, 2008	G	1.004	0.947	1.037	0.621	0.858	0.142	1.207	0.168	1.032	0.799	1.081	0.486	0.987	0.897
rs1052555	19:45855524	ERCC2	exonic (synonymous)	Caggana, 2001; Yang, 2005	A	0.950	0.362	0.964	0.597	0.950	0.601	0.859	0.272	0.865	0.225	1.003	0.980	0.868	0.157
rs1618536	19:45871606	ERCC2	intronic	Caggana, 2001; Wrensch, 2005; Yang, 2005	A	1.075	0.182	1.080	0.252	1.051	0.593	1.087	0.512	0.986	0.899	1.237	0.038	1.117	0.233

rs3212986	19:45912736	CD3EAP	exonic (nonsynonymous)	Bethke, 2008; Wrensch, 2005; Yang, 2005; Chen, 2000	A	1.082	0.189	1.110	0.160	0.964	0.730	1.036	0.803	1.047	0.712	1.149	0.224	1.039	0.715
rs3212955	19:45923496	ERCC1	intronic	Yang, 2005	G	1.088	0.179	1.108	0.187	0.988	0.915	1.019	0.897	1.066	0.618	1.172	0.182	1.073	0.522
rs1673041	19:50909389	POLD1	intronic	Bethke, 2008; Semmler, 2006	A	1.107	0.104	1.066	0.415	1.160	0.165	1.183	0.254	1.208	0.144	1.273	0.036	1.125	0.281
rs132793	22:42063681	XRCC6	intergenic	Liu, 2007	A	1.007	0.919	0.953	0.574	1.114	0.352	1.139	0.396	1.105	0.459	0.916	0.502	0.924	0.514

^aOR for each additional copy of the minor allele, estimated in a logistic regression model adjusted for: age, sex, study site

^bIncludes 367 patients whose gliomas were found to carry mutations in *IDH1* or *IDH2* (48 GBMs, 85 AA, 47 A2, 81 MOAs, 106 Oligos)

Abbreviations: Glioblastoma (GBM), Anaplastic astrocytoma (AA), Grade 2 astrocytoma (A2), Mixed Oligoastrocytoma (MOA), Oligodendroglioma (Oligo)