Gene Name	Astrocytoma	Classic	Classic Like	1p19q Co-deletion	Glioblastoma	GCIMP High	GCIMP Low	IDH Mutant	IDH Mutant Co-deletion	IDH Mutant Non-co-deletion	IDH WT	IDH WT Primary GBM	Glioma	LGm6 GBM	Mesenchymal	Mesenchymal Like	Neural	Oligodendroglioma	Oligoastrocytoma	PA Like	Proneural	Cohort2(Glioma)	Cohort3(Glioma)	Cohort4(Bladder)	Cohort4(HNSCC)	Cohort4(Melanoma)	Cohort4(Lung)
A1BG						√		√		√			√				√	√						√		√	
A1CF																										√	√
A2ML1																										√	
A4GALT																										√	
AAAS																										√	
AADAC																										√	
AADACL4					√						√	√	√			√					√					√	
AADAT																										√	
AAGAB																										√	
AAK1																							√			√	
AAR2																											√
AARS																										√	
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AASDH																										√	
AASS																										√	
AATF																										√	
ABAT																										√	
ABCA1																										√	
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ABCA2																										√	
ABCA3																										√	
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ABCA5																							√			√	
ABCA6																										√	√
ABCA7																										√	
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ABCB5																							√			√	
ABCB6																										√	
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ABCB8			√		√						√	√	√		√												
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ABCC3																							√			√	
ABCC4																										√	√
ABCC5					√		√	√		√			√								√						
ABCC6																											
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ACTB																							√		√		
ACTBL2	√	√			√						√	√	√			√										√	
ACTC1																										√	
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ACTL9																										√	
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ACTN2																										√	
ACTN4	√	√	√								√		√														
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ACTR3																										√	
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ADAM18																										√	
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ADAM22		√			√						√	√	√			√										√	
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ADGRF1																										√	
ADGRF2																										√	
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ADGRG6																							√			√	√
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ADGRL3																										√	
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MDM2																											√		
MDM4																												√	
MDN1					√						√	√	√			√	√										√	√	
ME1																											√		
ME2																											√		
ME3																											√		
MECOM			√		√						√	√	√		√	√											√		
MED1																											√		
MED12																											√	√	
MED12L		√	√		√	√		√		√	√	√	√				√	√			√						√	√	
MED13																											√	√	
MED13L																											√		
MED14																											√		
MED14OS																				√									
MED16					√			√		√			√		√			√					√				√		
MED23	√				√			√		√			√						√								√		
MED24																							√				√		
MED25																											√		
MED27																											√		
MED6																											√		
MED7																											√		
MED8																							√						
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MEF2C																											√		
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MEGF9																												√	
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MEMO1																							√				√		
MEN1																												√	
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MEPCE																											√		
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MET																											√		
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MFN1																											√		
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MFSD12			√		√						√	√	√																
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MFSD4A																											√		
MFSD4B																							√						
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MFSD6	√										√		√		√	√											√		
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MFSD9					√						√	√	√	√	√	√													
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MGAM2																											√		
MGAT2																											√		
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MGAT4A	√					√		√		√			√														√		
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MICU2																							√						
MICU3																											√		
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MINK1																												√	
MIOS																											√		
MIOX																											√		
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MLST8			√								√		√																
MLX																											√		
MLXIP																											√		
MMACHC																											√		
MME																											√		
MMP1					√						√	√	√			√											√		
MMP10	√										√		√		√	√											√		
MMP11																											√		
MMP13																											√		
MMP15																												√	
MMP16																											√	√	
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MMP25																											√		
MMP26																											√		
MMP27																											√	√	
MMP3		√			√						√	√	√											√					
MMP8																											√		
MMP9																											√		
MMRN1																											√	√	
MMS22L																											√	√	
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MNAT1																											√		
MNDA																											√		
MNT					√						√	√	√			√			√										
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MOB3A																											√		
MOCS5																											√		
MOCS1																												√	
MOCS3																											√		
MOGAT1																											√	√	
MOGAT3																												√	
MOGS	√				√			√		√			√																
MOK																											√		
MON1A																											√		
MON1B					√						√	√	√		√												√		
MON2																											√		
MORC1	√					√		√		√			√						√								√		
MORC3																							√						
MORC4																											√		
MORF4L1																											√		
MORN1																											√		
MOS																				√							√		
MOSPD2																											√		
MOV10																											√		
MOV10L1					√						√	√	√	√	√												√		
MPDZ	√										√		√			√											√		
MPEG1																											√		
MPHOSPH8																											√		
MPHOSPH9																											√		
MPL																											√		
MPO																											√		
MPP1																											√		
MPP2																											√	√	
MPP3																											√	√	
MPP5																											√		
MPP6																											√		
MPP7																											√		
MPPED1			√			√		√		√	√		√				√		√		√						√		
MPPED2																												√	
MPRIP																											√	√	
MPZ																											√		
MPZL2																											√	√	
MR1																											√		
MRAP																											√		
MRAP2																											√		
MRC2																											√		
MRGPRD																											√		
MRGPRE					√						√	√	√	√	√												√		
MRGPRX1																											√		
MRGPRX3																													
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MRI1																											√		
MRM2																											√		
MRM3																											√		
MRNIP																											√		
MROH1																											√		
MROH2B	√	√	√		√						√		√			√			√	√			√				√	√	
MROH7																											√		
MROH9																										√	√		
MRPL16																											√		
MRPL2																											√		
MRPL21																											√		
MRPL22																											√		
MRPL30			√		√						√	√	√						√										
MRPL37																											√		
MRPL38																											√		
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MRPL40																							√				√		
MRPL45																											√		
MRPL46																											√		
MRPS18B																												√	
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MRPS34																											√		
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MRVI1																											√		
MS4A1					√						√	√	√		√														
MS4A10																											√		
MS4A13																											√		
MS4A2																											√		

SACM1L	√			√				√	√				√		√													
SACS	√				√						√	√	√		√	√								√		√		
SAFB2																								√				
SAG																												√
SAGE1																								√				
SALL1					√	√		√		√			√				√	√								√		√
SALL2																								√				
SALL3		√			√						√	√	√													√		
SALL4		√			√						√	√	√							√						√		
SAMD10																										√		
SAMD12																										√		
SAMD14																												√
SAMD15																										√		
SAMD3																										√		
SAMD4A																										√		
SAMD4B																										√		
SAMD7			√			√					√	√	√				√				√							√
SAMD8																										√		
SAMD9		√				√					√	√	√													√		√
SAMD9L																										√		
SAMHD1																										√		√
SAMM50																										√		
SAMSN1																										√		
SAPCD1																										√		
SARDH																												
SARS						√		√		√			√					√			√				√			
SART1																										√		
SART3																										√		
SASH3																										√		
SATB1																										√		
SATB2																										√		√
SATL1					√						√	√	√		√											√		
SAXO2																												√
SBF1						√		√		√			√					√								√		
SBF2																										√		
SBNO1																									√			
SBNO2																										√		
SBSN																										√		
SBSPON																								√				
SCAF1																										√		
SCAF11																										√		
SCAF4																								√				
SCAI																										√		√
SCAMP3																										√		
SCAP					√						√	√	√				√							√		√		
SCAPER																										√		
SCARA3																										√		
SCARA5																										√		
SCARB2																										√		
SCD																										√		
SCD5						√		√		√			√													√		
SCEL																										√		
SCFD2																										√		
SCGB2A2																										√		
SCIN	√					√		√		√			√					√								√		
SCLT1																										√		
SCLY					√		√	√		√			√					√								√		
SCMH1																										√		
SCML2		√	√		√						√	√	√		√	√										√		
SCML4																					√							√
SCN10A																										√		√
SCN11A			√		√						√	√	√		√											√		
SCN1A	√					√		√		√	√		√		√											√		√
SCN2A																								√		√		
SCN3A			√	√	√	√		√	√		√	√	√			√	√	√	√		√					√		√
SCN3B																										√		
SCN4A																										√		√
SCN5A																								√		√		
SCN7A					√						√	√	√		√											√		
SCN8A																										√		√
SCN9A					√						√	√	√		√	√										√		
SCNN1A																										√		
SCNN1B		√			√						√	√	√		√											√		
SCNN1G																										√		
SCPZD1				√				√	√				√			√		√										
SCRE1																										√		
SCRIB																										√		
SCRN1																										√		
SCRN2																												√
SCRT1																									√	√		
SCUBE1																								√		√		
SCUBE2																										√		
SCUBE3																									√			
SCYL2		√	√		√						√	√	√													√		√
SCYL3			√								√		√															
SDAD1																										√		
SDCCAG8																												√
SDE2																										√		
SDF4																										√		√
SDHA																										√		√
SDHAF3																					√							
SDHC																										√		
SDHD																								√				
SDK1	√		√		√	√		√		√	√	√	√		√	√				√						√		√
SDK2																					√					√		
SDR16C5																										√		
SDR42E1																										√		
SDS																												√
SEC11C																										√		
SEC14L2																										√		
SEC14L3		√	√								√		√					√										
SEC14L4																										√		
SEC14L5	√	√		√				√	√		√		√		√			√		√					√		
SEC14L6																										√		
SEC16A					√						√	√	√		√											√		
SEC16B		√	√		√						√	√	√								√					√		
SEC22A																										√		
SEC22C																										√		
SEC23A																										√		
SEC23B																					√					√		
SEC23IP																										√		
SEC24A																										√		
SEC24B																										√		
SEC24C																										√		
SEC24D	√		√								√		√				√									√		
SEC31B																										√		
SEC61B																										√		
SEC62																										√		
SEC63																										√		
SECISBP2																								√				
SECISBP2L																										√		
SEL1L																												√
SEL1L2																										√		
SEL1L3																										√		
SELE		√	√								√		√					√								√		
SELENBP1																										√		√
SELL																										√		
SELP																										√		
SEM1																										√		
SEMA3A																										√		
SEMA3C	√					√		√		√			√					√								√		
SEMA3D																										√		√
SEMA3E				√				√	√				√			√		√		√	√				√		√
SEMA3F	√										√		√				√									√		
SEMA3G																										√		
SEMA4A																										√		
SEMA4C																										√		
SEMA4F																										√		
SEMA4G																										√		
SEMA5B																										√		√
SEMA6A																										√		
SEMA6B																										√		
SEMA6C																										√		
SEMA6D																												√
SEMA7A	√		√		√	√		√		√	√	√	√		√			√								√		
SEMG1																										√		
SEMG2																										√		√
SENP2	√					√		√		√			√					√								√		
SENP5																										√		√
SENP6																								√		√		
SENP7			√		√						√	√	√													√		
SEPHS1																										√		
SEPSECS																										√		
SERHL2																										√		
SERINC1																										√		
SERINC2			√		√						√	√	√													√		
SERINC3																										√		
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SERPINA1																										√		
SERPINA10																										√		
SERPINA11		√	√		√						√	√	√													√		
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SERPINA4																										√		√
SERPINA5																										√		
SERPINA6	√					√		√		√			√													√		
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SERPINB10																										√		
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SERPINB13																								√		√		
SERPINB3				√				√	√				√							√						√		
SERPINB4																										√		
SERPINB5																										√		
SERPINB6																										√		
SERPINB7	√	√	√								√		√		√		√									√		√
SERPINB8	√	√									√		√		√											√		
SERPINB9																										√		
SERPINC1																					√					√		
SERPIND1																										√		
SERPINE1																										√		
SERPINE2																										√		
SERPINF1																										√		
SERPING1																										√		
SERPINI2																										√		√
SERTAD2																										√		√
SESN1																								√		√		
SESN2																										√		
SESN3	√					√		√		√			√															
SETBP1																										√		
SETD1A																								√		√		
SETD2																										√		
SETD3						√		√		√			√					√		√						√		
SETD5						√		√		√								√		√						√		
TDB2-SETDB2-PHF11																										√		
SETMAR																												√
SETX																										√		
SEZ6					√						√	√	√			√												
SEZ6L																										√		
SEZ6L2		√	√		√						√	√	√													√		
SF1																										√		
SF3A1																										√		
SF3A2																										√		√
SF3A3																										√		
SF3B1	√					√		√		√			√			√				√						√		√
SF3B4																										√		
SFI1		√	√		√						√	√	√													√		
SFMBT1																										√		
SFMBT2																										√		
SFN																										√		
SFR1																										√		
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SFRP2																										√		
SFSWAP																										√		
SFTPA2																										√		
SFTPB																								√				
SFTPD																										√		
SFXN4																										√		
SGCA																										√		
SGCD																								√				
SGCE																										√		
SGCG																												√
SGF29																										√		
SGIP1			√		√						√	√	√		√													
SGK1																										√		
SGK2																										√	√	
SGMS1																										√		
SGMS2																								√				√
SGO1																												√
SGPL1																										√		
SGPP1																										√		
SGSM1																										√		√
SGTA																										√		
SH2B3				√				√	√				√					√										
SH2D1B																										√		
SH2D3C	√										√		√				√									√		

ZNF8			√		√						√	√	√															
ZNF804A			√		√						√	√	√														√	√
ZNF804B																											√	√
ZNF805																							√					
ZNF808																							√				√	
ZNF813																							√				√	
ZNF814					√						√	√	√	√														
ZNF816-ZNF321P																											√	
ZNF823																											√	
ZNF827																											√	
ZNF829																											√	
ZNF831			√		√	√		√		√	√	√	√						√								√	√
ZNF835																											√	
ZNF836																											√	√
ZNF841		√			√						√	√	√			√												
ZNF844																											√	
ZNF845				√				√	√				√					√									√
ZNF85																												√
ZNF853																											√	
ZNF860																											√	
ZNF862																							√					
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ZNF879																												√
ZNF90																							√					√
ZNF91					√						√	√	√		√	√							√				√	√
ZNF92																												√
ZNF98					√						√	√	√		√												√	
ZNF99																											√	
ZNFX1	√										√		√			√											√	
ZNRF4																							√					
ZP1																											√	√
ZP2																											√	
ZP3	√					√		√		√			√		√												√	
ZP4																							√				√	√
ZPBP		√			√						√	√	√		√	√											√	
ZRANB3					√			√		√			√														√	
ZRSR2																											√	
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ZSCAN10																											√	
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ZSCAN2																											√	
ZSCAN20																											√	
ZSCAN25																											√	
ZSCAN29					√						√	√	√		√	√												
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ZSCAN31																							√					
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ZSCAN5A																											√	
ZSCAN9																											√	
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ZSWIM4																											√	
ZSWIM5																											√	
ZSWIM8																											√	√
ZW10																											√	
ZWINT							√	√		√			√		√													√
ZXDA																											√	
ZXDB																											√	
ZXDC																											√	
ZYG11A																					√							√
ZZEF1																											√	
ZZZ3						√		√		√			√					√		√							√	