

Supplementary Table 1. Gene panel for detecting adult brainstem gliomas at our institution

Gene mutation					Gene rearrangement	Copy number variation
ACVR1	DAXX	IDH2	NF2	RGPD3	BRAF	CDK4
AKT1	DDX3X	KDR	NOTCH1	SETD2	FGFR3	CDK6
ATRX	EGFR	KIT	NRAS	SMARCB1	RELA	EGFR
BCOR	FAT1	KLF4	PDGFRA	SMARCE1	YAP1	KDR
BRAF	FGFR1	KRAS	PIK3CA	SMO		KIT
BRCA1	FGFR3	MDM4	PIK3R1	TERT		MET
BRCA2	FUBP1	MEN1	PLCG1	TP53		MYC
CDK4	GNAQ	MET	PMS2	TRAF7		PDGFRA
CDK6	GNAS	MLH1	PPM1D	TSC1		
CDKN2A	H3F3A	MSH2	PTCH1	TSC2		
CDKN2B	HIST1H3B	MSH6	PTEN	USP8		
CHEK2	HIST1H3C	MYC	PTPN11	YAP1		
CIC	HRAS	MYCN	RB1			
CTNNB1	IDH1	NF1	RELA			