

Supplementary Table S1. List of genes, copy number variations (CNV) and *KIAA1549-BRAF* fusions tested

DNA-based panels						RNA-based panel	
Gene	RefSeq	Research panel (30-gene panel) ¹		Clinical panel (16-gene panel) ²		Fusion	COSMIC
		Target	Overall Coverage (%)	Target	CNV targeted		
<i>ACVR1</i>	NM_001105	-	-	Hotspots in exons 6, 7, 8, 9	-		
<i>ATRX</i>	NM_000489	Whole coding sequence, exons 1-35	95,9	Whole coding sequence, exons 1-35	-		
<i>BRAF</i>	NM_004333	Whole coding sequence, exons 1-18	94,6	Hotspots in exons 7, 10, 11, 15	-		
<i>CDKN2A</i>	NM_000077	Whole coding sequence, exons 1-3	50,9	Whole coding sequence, exons 1-3	Homozygous deletion		
<i>CDKN2B</i>	NM_004936	Whole coding sequence, exons 1-2	64,7	-	-		
<i>CIC</i>	NM_015125	Whole coding sequence, exons 1-20	90,4	-	-		
<i>DAXX</i>	NM_001141970	Whole coding sequence, exons 1-8	90,1	-	-		
<i>EGFR</i>	NM_005228	Whole coding sequence, exons 1-28	99,9	Whole coding sequence, exons 1-28	Amplification		
<i>FOXR2</i>	NM_198451	Whole coding sequence, exon 1	100,0	-	-		
<i>FUBP1</i>	NM_003902	Whole coding sequence, exons 1-20	98,8	-	-		
<i>H3F3A</i>	NM_002107	Whole coding sequence, exons 2-3	63,7	Hotspot in exon 2	-		
<i>HIST1H3B</i>	NM_003537	Whole coding sequence, exon 1	95,2	Hotspot in exon 1	-		
<i>HIST1H3C</i>	NM_003531	Whole coding sequence, exon 1	-	Hotspot in exon 1	-		
<i>IDH1</i>	NM_005896	Whole coding sequence, exons 3-10	97,7	Hotspot in exon 4	-		
<i>IDH2</i>	NM_002168.2	Whole coding sequence, exons 2-11	90,8	Hotspot in exon 4	-		
<i>KEL</i>	NM_000420	Whole coding sequence, exons 1-19	99,3	-	-		
<i>KRAS</i>	NM_033360	Whole coding sequence, exons 2-6	90,3	-	-		
<i>LZTR1</i>	NM_006767	Whole coding sequence, exons 1-21	96,2	-	-		
<i>MET</i>	NM_001127500	Whole coding sequence, exons 2-21	98,9	-	-		
<i>MSH6</i>	NM_000179	Whole coding sequence, exons 1-10	94,8	-	-		
<i>NF1</i>	NM_001042492	Whole coding sequence, exons 1-58	98,5	-	-		
<i>NOP53</i>	NM_015710	Whole coding sequence, exons 1-13	72,0	-	-		
<i>PDGFRA</i>	NM_006206	Whole coding sequence, exons 2-23	100,0	Exons 5-12, 14-15, 18, 21-23	Amplification		
<i>PIK3CA</i>	NM_006218	Whole coding sequence, exons 2-21	96,9	-	-		
<i>PIK3RI</i>	NM_181523	Whole coding sequence, exons 2-16	98,4	-	-		
<i>PTEN</i>	NM_000314	Whole coding sequence, exons 1-9	95,7	Whole coding sequence, exons 1-9	-		
<i>QKI</i>	NM_006775	Whole coding sequence, exons 1-8	98,6	-	-		
<i>RB1</i>	NM_000321	Whole coding sequence, exons 1-27	93,1	-	-		
<i>TERT</i>	NM_001193376	-	-	Hotspot in promoter region	-		
<i>TP53</i>	NM_000546	Whole coding sequence, exons 2-11	100,0	Whole coding sequence, exons 2-11	-		
<i>TP73</i>	NM_005427	Whole coding sequence, exons 2-14	86,0	-	-		
<i>TSC1</i>	NM_000368	Whole coding sequence, exons 3-23	94,8	-	-		
<i>TSC2</i>	NM_000548	Whole coding sequence, exons 2-42	96,8	-	-		
<i>Chr 1p</i>	-	-	-	-	Codeletion		
<i>Chr19q</i>	-	-	-	-	Codeletion		

¹ Cantero D, Rodriguez de Lope Á, Moreno de la Presa R, Sepúlveda JM, Borrás JM, Castresana JS, D'Haene N, García JF, Salmon I, Mollejo M, Rey JA, Hernández-Laín A, Meléndez B (2018) Molecular Study of Long-Term Survivors of Glioblastoma by Gene-Targeted Next-Generation Sequencing. *J Neuropathol Exp Neurol* 77:710–716. doi: 10.1093/jnen/nly048

² D'Haene N, Meléndez B, Blanchard O, De Nève N, Lebrun L, Van Campenhout C, Salmon I (2019) Design and Validation of a Gene-Targeted, Next-Generation Sequencing Panel for Routine Diagnosis in Gliomas. *Cancers (Basel)* 11. doi: 10.3390/cancers11060773