

Supplemental Data Table S3. Comparative evaluation of the NGS-MRD panel and ddPCR assays in serially diluted reference materials

Mutation	Expected frequency	ddPCR replicates		NGS replicates		
		VAF, % (total events)		VAF, % (total read count)		
		1	2	1	2	3
<i>IDH2</i> R172K	5.000%	-	-	5.033% (11,783)	4.317% (13,366)	5.193% (6,316)
	0.500%	-	-	0.360% (10,277)	0.695% (7,608)	0.752% (7,716)
	0.250%	-	-	0.626% (11,026)	0.098% (8,194)	0.254% (7,098)
	0.125%	-	-	0.13% (12,345)	0.202% (5,934)	0.095% (7,364)
	0.060%	-	-	0.145% (9,666)	ND (5,080)	0.039% (7,658)
<i>KITD</i> 816V	5.000%	-	-	4.643% (10,252)	4.895% (8,437)	4.738% (5,888)
	0.500%	-	-	0.351% (9,413)	0.421% (7,269)	0.752% (6,649)
	0.250%	-	-	0.598% (9,527)	0.316% (7,269)	0.193% (6,217)
	0.125%	-	-	0.123% (10,564)	0.188% (5,837)	ND (6,213)
	0.060%	-	-	ND (8,889)	ND (5,684)	ND (6,593)
<i>KRAS</i> G12C	5.000%	-	-	4.502% (9,019)	5.36% (7,742)	4.914% (5,026)
	0.500%	-	-	0.386% (8,554)	0.368% (6,521)	0.438% (5,942)
	0.250%	-	-	0.344% (8,726)	0.136% (6,612)	0.309% (5,817)
	0.125%	-	-	0.041% (9,697)	0.056% (5,399)	ND (5,592)
	0.060%	-	-	ND (7,829)	ND (5,048)	0.135% (5,924)
<i>KRAS</i> G12D	5.000%	6.23% (12,809)	5.8% (13,624)	4.457% (9,041)	4.836% (7,755)	4.753% (5,028)
	0.500%	0.47% (14,315)	0.57% (14,232)	0.443% (8,574)	0.581% (6,538)	0.587% (5,966)
	0.250%	0.31% (14,839)	0.35% (13,888)	0.47% (8,726)	0.302% (6,619)	0.24% (5,833)
	0.125%	0.14% (12,579)	0.12% (10,786)	0.103% (9,696)	0.166% (5,411)	0.126% (5,546)
	0.060%	0.089% (9,496)	0.03% (12,886)	0.103% (7,791)	ND (5,052)	ND (5,957)
<i>KRAS</i> Q61H	5.000%	-	-	5.275% (9,080)	4.577% (7,844)	5.540% (5,560)
	0.500%	-	-	0.593% (8,941)	0.503% (6,563)	0.813% (6,148)
	0.250%	-	-	0.435% (8,975)	0.224% (6,683)	0.19% (5,800)
	0.125%	-	-	ND (10,020)	0.283% (5,662)	ND (5,840)
	0.060%	-	-	0.088% (7,933)	ND (5,411)	ND (6,243)
<i>NRAS</i> Q61R	5.000%	5.27% (13,170)	5.4% (14,038)	5.018% (7,713)	4.487% (6,709)	5.145% (4,606)
	0.500%	0.57% (14,933)	0.48% (13,463)	0.456% (7,231)	0.695% (5,465)	0.381% (4,982)
	0.250%	0.34% (14,351)	0.21% (14,039)	0.48% (7,086)	0.146% (5,493)	0.304% (4,609)
	0.125%	0.189% (14,840)	0.06% (8,819)	0.196% (8,148)	ND (4,644)	0.123% (4,888)
	0.060%	0.108% (10,464)	0.03% (14,281)	ND (6351)	ND (4,254)	ND (4,987)

Abbreviations: ND, not detected; NGS, next-generation sequencing; MRD, measurable residual disease; ddPCR, droplet digital PCR; VAF, variant allele frequency.