

Supplementary Table 1 ddPCR data on the detection of *BRAF* V600E mutant DNA in wildtype DNA background.

Target mutant fraction (%)	Mutant (FAM Channel)			Wildtype (VIC Channel)			Measured mutant fraction (%)	Low (%;95% CI)	High (%;95% CI)
	Positive droplet counts	Negative droplet counts	Copies detected	Positive droplet counts	Negative droplet counts	Copies detected			
0	0	104683	0	103934	749	517129	0	0	0
0.001	6	104533	6	103641	898	497307	0.0012	0.0002	0.0022
0.005	24	108165	24	107244	945	512865	0.0047	0.0028	0.0066
0.01	39	104895	39	104016	918	497271	0.0078	0.0054	0.0103
0.1	361	103856	362	102806	1411	448360	0.0807	0.0723	0.0890
1.0	3770	98637	3841	101652	755	502818	0.7639	0.7372	0.7907

Supplementary Figure 1 Plot of target mutant fraction vs. measured mutant fraction for *BRAF* V600E in wildtype DNA background. Error bars indicate the Poisson 95% confidence intervals.

