

S7 Table. Test characteristics of digital droplet PCR. Analysis of ctDNA for the mutations of interest with ddPCR was performed on a single baseline 4 ml plasma sample. Sensitivity, specificity, positive predictive value (PPV) and negative predictive value (NPV) were calculated using standard contingency tables, including only patients who were tested for *EGFR* and *KRAS* in both tissue and blood samples.

Mutation	Stage	n	Sensitivity	Specificity	PPV	NPV
<i>EGFR ex19del</i>	All stages	632	41.4%	99.7%	85.7%	97.2%
	Stage I-II	179	0.0%	100%	n/a	96.6%
	Stage III	127	25.0%	99.2%	50.0%	97.6%
	Stage IV	326	57.9%	99.7%	91.7%	97.5%
<i>EGFR L858R</i>	All stages	637	53.6%	100%	100%	97.9%
	Stage I-II	179	11.1%	100%	100%	95.5%
	Stage III	130	25.0%	100%	100%	97.7%
	Stage IV	328	86.7%	100%	100%	99.4%
<i>KRAS</i>	All stages	628	46.4%	98.9%	94.4%	81.8%
<i>G12A/C/D/R/S/V</i>	Stage I-II	178	8.2%	100%	100%	74.1%
<i>G13D</i>	Stage III	129	35.7%	99.0%	90.9%	84.7%
	Stage IV	321	67.0%	98.1%	94.7%	85.8%