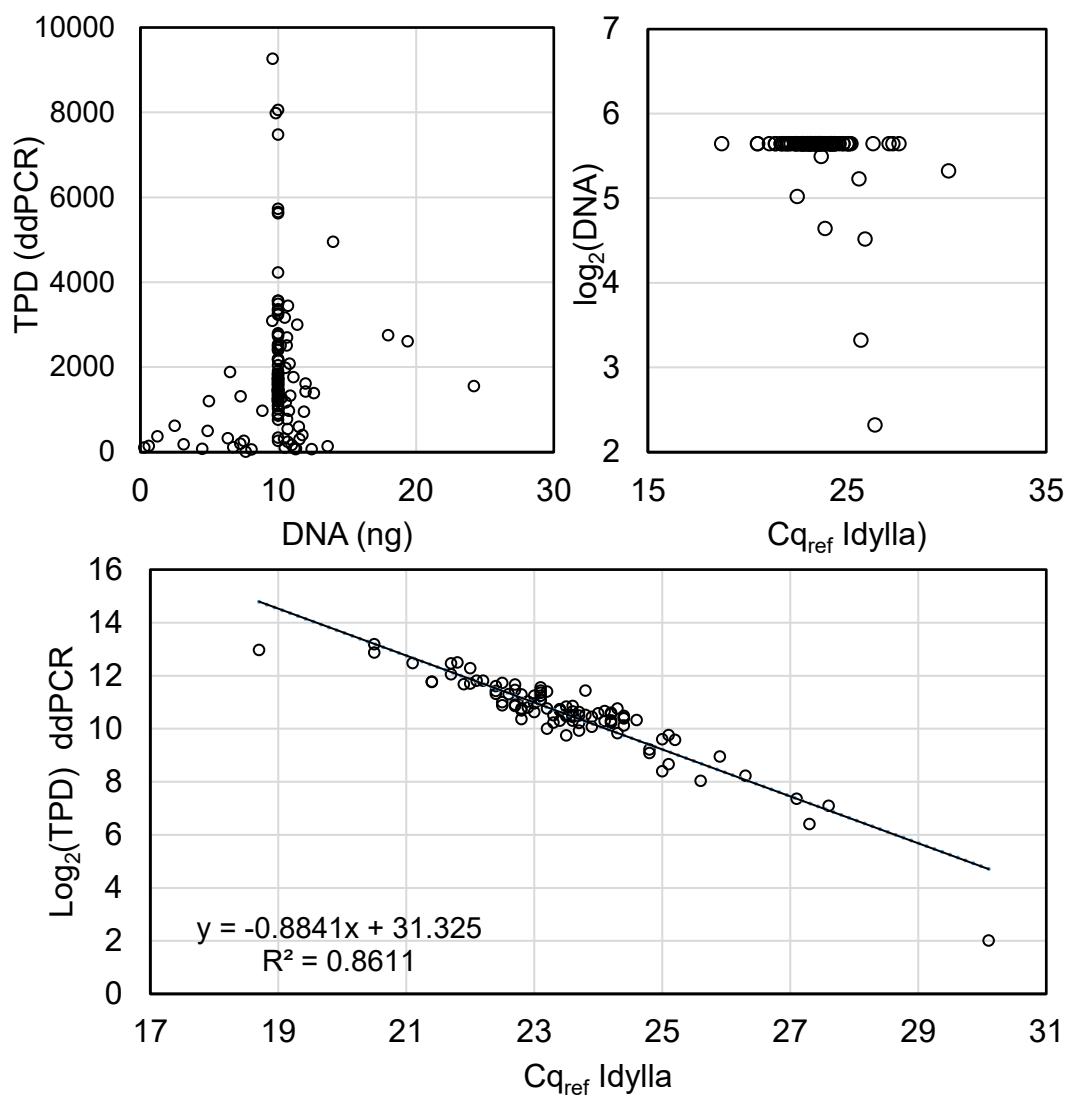
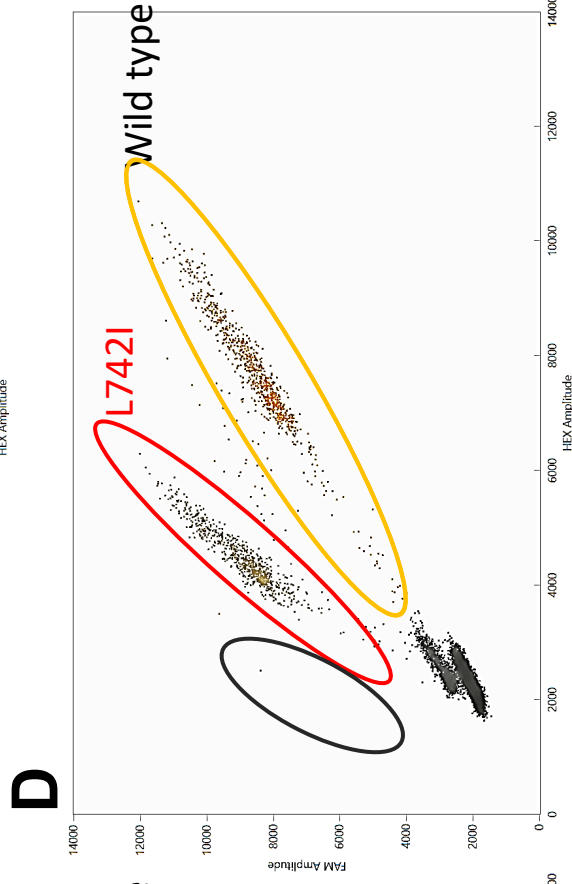
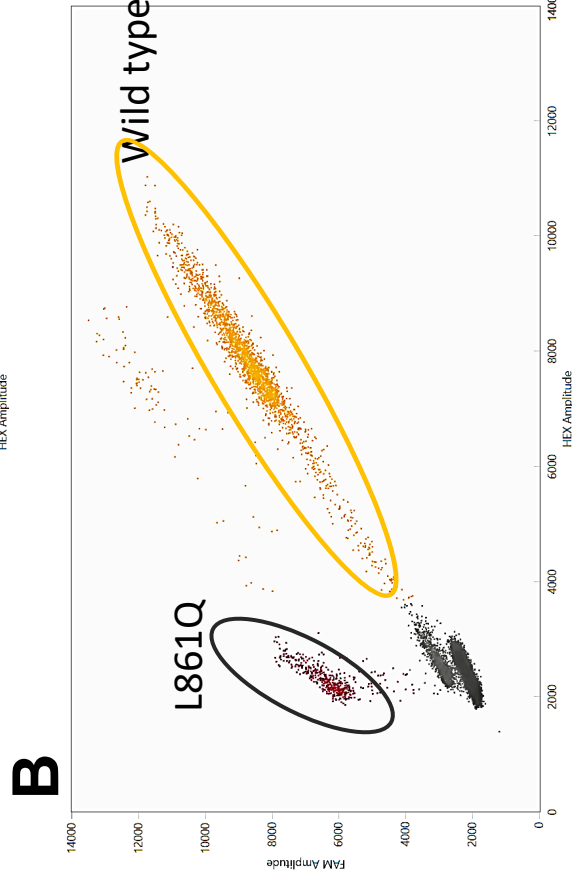
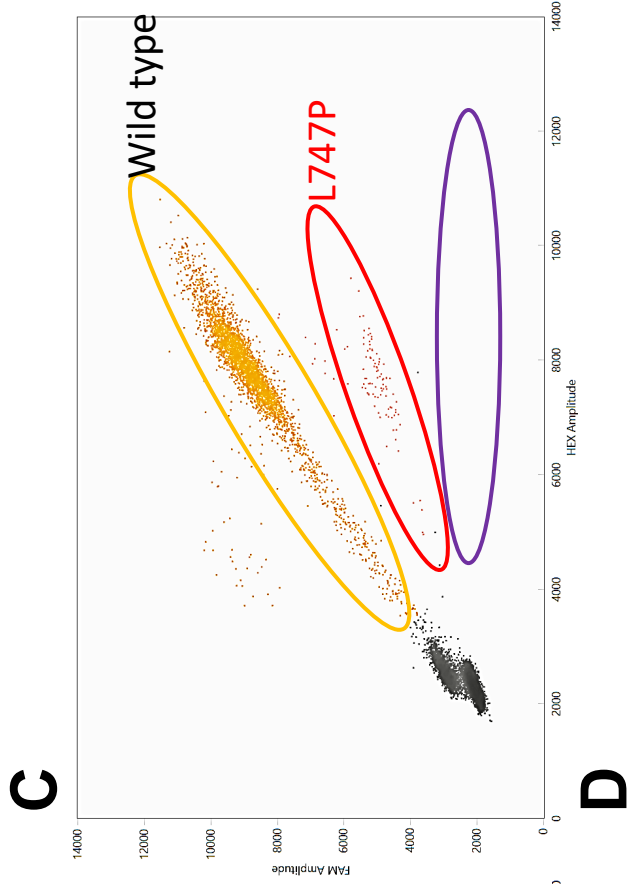
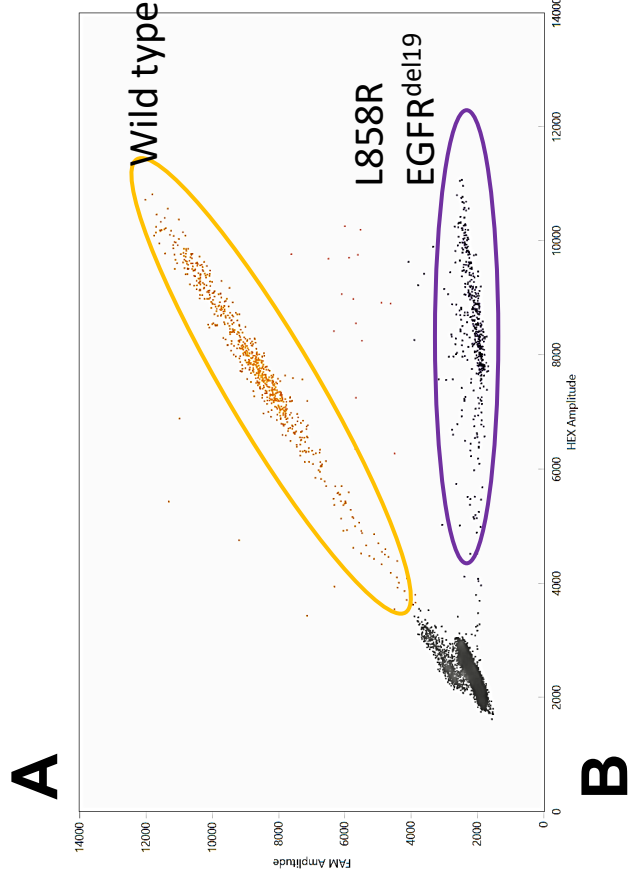


**Figure S1.** The estimated variant frequencies are not correlated



**Figure S2.** Robustness evaluation



**Figure S3.** Results of ddPCR testing of SNP in position p.747 and p.742

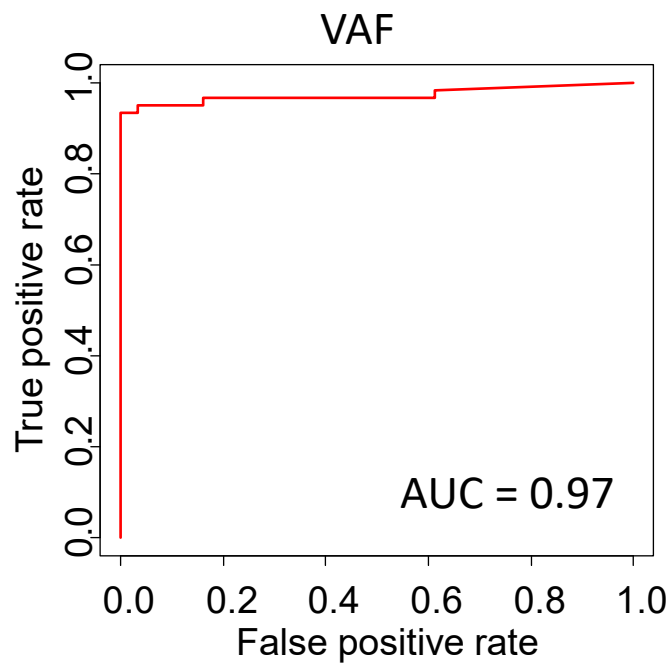
# **Mutations detectable by the Idylla™ EGFR Mutation Assay**

Exon	Mutation	DNA alteration
Exon 18	G719A	c.2156G > C
	G719C	c.2155G > T; c.2154_2155delisTT
	G719S	c. c.2155G > A
Exon 19	Del 9	c.2238_2248delinsGC; c.2239_2248delinsC; c.2240_2248del; c.2239_2247del
	Del 12	c.2239_2251delinsC; c.2240_2251del
	Del 15	c.2235_2249del; c.2236_2250del; c.2239_2253del; c.2240_2254del; c.2238_2252del; c.2237_2251del; c.2235_2252delinsAAT; c.2237_2252delinsT; c.2234_2248del; c.2236_2253delinsCTA; c.2237_2253delinsTA; c.2235_2251delinsAG; c.2236_2253delinsCAA;c.2230_2249delinsGTCAA
	Del 18	c.2240_2257del; c.2237_2255delinsT; c.2239_2256del; c.2236_2253del; c.2239_2258delinsCA; c.2237_2254del; c.2238_2255del; c.2237_2257delinsTCT; c.2236_2255delinsAT; c.2236_2256delinsATC; c.2237_2256delinsTT; c.2237_2256delinsTC;c.2235_2255delinsGGT
	Del 21	c.2238_2258del; c.2236_2256del
	Del 24	c.2253_2276del
Exon 21	L858R	c.2573T > G; c.2573_2574delinsGT; c.2573_2574delinsGA
	L861Q	c.2582T > A

## **Targeted mutations and alterations detected by IDEGFR(b) SENSI-v3-50 Kit for ddPCR assays**

Exon	Mutation	DNA alteration	Cosmic ID
Exon 19	p.E746_A750del (1)	c.2235_2249del15	COSM6223
	p.E746_A750del (2)	c.2236_2250del15	COSM6225
	p.L747_P753>S	c.2240_2257del18	COSM12370
	p.E746_T751>I	c.2235_2252>AAT (complex)	COSM13551
	p.E746_T751del	c.2236_2253del18	COSM12728
	p.E746_T751>A	c.2237_2251del15	COSM12678
	p.E746_S752>A	c.2237_2254del18	COSM12367
	p.E746_S752>V	c.2237_2255>T(complex)	COSM12384
	p.E746_S752>D	c.2238_2255del18	COSM6220
	p.L747_A750>P	c.2238_2248>GC (complex)	COSM12422
	p.L747_T751>Q	c.2238_2252>GCA (complex)	COSM12419
	p.L747_E749del	c.2239_2247del9TTAAGAGAA	COSM6218
	p.L747_S752del	c.2239_2256del18	COSM6255
	p.L747_A750>P	c.2239_2248TTAAGAGAAG>C(complex)	COSM12382
	p.L747_P753>Q	c.2239_2258>CA (complex)	COSM12387
	p.L747_T751>S	c.2240_2251del12	COSM6210
	p.L747_T751del	c.2240_2254del15	COSM12369
	p.L747_T751>P	c.2239_2251>C(complex)	COSM12383
	p.L747_T751del	c.2238_2252del15	COSM23571
	p.L747_S752>Q	c.2239_2256>CAA	COSM12403
	p.E746_T751>V	c.2237_2252>T	COSM12386
	p.E746_T751>T	c.2236_2253> ACG	/
	p.L747_A750>P	c.2239_2250>CCC	/
	p.L747_K754>QL	c.2239_2261>CAATT	/
	p.E746_K754>EQHL	c.2238_2261>GCAACATCT	/
	p.E746_S752>EQ	c.2238_2256>GCAA	/
	p.E746_A750>QP	c.2236_2248>CAAC	COSM13557
	p.E746_T751>Q	c.2236_2253>CAA	COSM22999
Exon 21	p.L858R	c.2573-2574TG>GT	COSM6224
		c.2573T>G	COSM12979
	p.L861Q	c.2582T>A	COSM6213

**Figure S4.** List of del19 alterations predicted to be detected



**Figure S5.** ROC curve analysed for VAF values obtained by ddPCR.