

A.

Sample	T790M	Conc.	+	-	A.D	F.A
H4006	DMSO	HEX	253	2867	11962	14829
		FAM	0	0	14829	
	Gefitinib	HEX	257	3060	12546	15606
		FAM	0	0	15606	
Control						
NTC	FAM	0	0	13733	13733	
	HEX	0	0	13733		
A549	HEX	12.8	172	15705	15877	
	FAM	0	0	15877		
H1975	HEX	14	201	16763	16964	72.7
	FAM	37.3	530	16434		

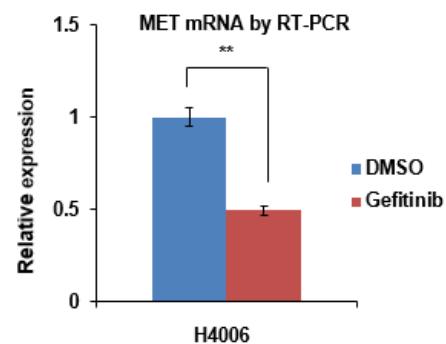
B.

Figure S1. Expression of specific gene alterations related to EGFR-TKI resistant mechanism in H4006. (A) EGFR T790M mutation changes in H4006 after gefitinib treatment. The T790M mutation allele frequency was measured using the ddPCR assay. NTC: Negative Template Control; A549: T790M negative cell; H1975: T790M positive cell. (B) Change in the C-MET mRNA expression level in H4006 after gefitinib treatment. C-MET mRNA expression was measured by RT-PCR. Error bars represent the mean ± SEM. Statistical analysis was performed using t-test. ** p ≤ 0.05; ns, not significant.

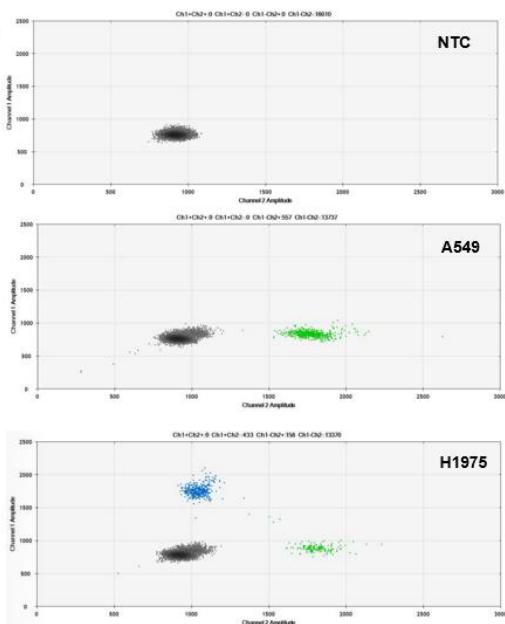
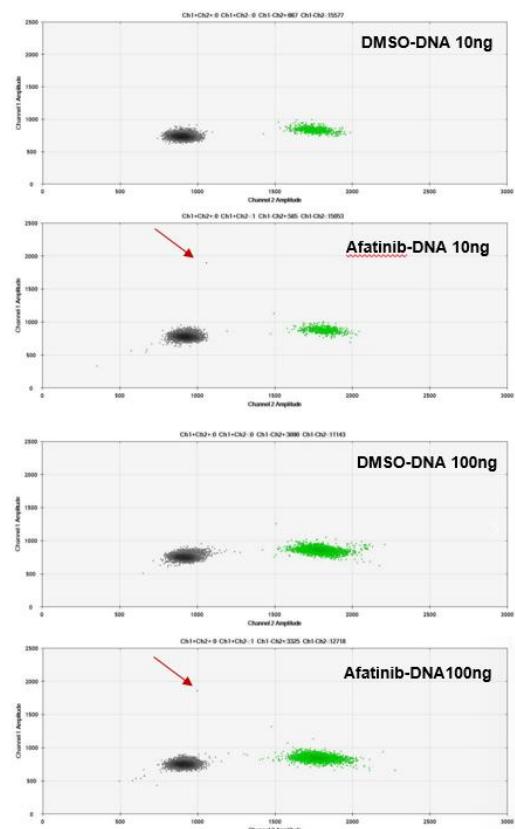
A.**B.****C.**

Figure S2. Expression of EGFR T790M mutation in PDCs. (A) EGFR T790M mutation changes in experimental controls. NTC: Negative Template Control; A549: T790M negative cell; H1975: T790M positive cell. (B) EGFR T790M mutation changes in PDCs after afatinib treatment. The T790M mutation allele frequency was measured using the ddPCR assay. Red arrow indicate that EGFR T790M positive oil-droplet.

Table S1. Primer sequences for direct sequencing of EGFR T790M

EGFR T790M	F-5'-CCATGAGTACGTATTTGAAACTC-3' R-5'-CATATCCCCATGGCAAACCTTTGC-3'
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Table S2. Primer sequences for qRT-PCR

MET	F-5'-TGCACAGTTGGCCTGCCATGA-3' R-5'-CAGCCATAGGACCGTATTCGG-3'
VIMENTIN	F-5'-AGGCAAAGCAGGAGTCCACTGA-3' R-5'-ATCTGGCGTTCCAGGGACTCAT-3'
E-CADHERIN	F-5'-GCCTCCTGAAAAGAGAGTCCAAG-3' R-5'-TGGCAGTGTCTCTCAAATCCG-3'
GAPDH	F-5'-TGATGACATCAAGAAGGTGG-3' R-5'-TCCTTGGAGGCCATGTGGC-3'

Table S3. Biotinylated probe sequences

Probe label	Sequence
T790M probe 1	5' – biotin – CCA CCG TGC AGC TCA TCA TGC A – 3'
T790M probe 2	5' – GCA AGA GTT TGC CAT GGG GAT ATG – biotin 3'
C-MET probe 1	5' – Biotin-TGCACCCCTTGAAGGAGGGACAAG – 3'
C-MET probe 2	5' – CGAAATCCAAAGTCCCAGCCAC-Biotin – 3'
C-MET probe 3	5' – Biotin-CAGTCAAGGTTGCTGATTTGGT – 3'
C-MET probe 4	5' – ATAGTATTCTTATCACATGT-Biotin – 3'