

Supplementary Table 1. Patient clinical and pathological characteristics and cellular viability.

ID	Age (year)	Gender	Smoking History	Stage	EGFR Status	PD-L1 expression (TPS)	TMB (mut/MB)	Concomitant mutations	Cellular Viability (%)
P1	60	Male	Former	IIIA	19del	65%	NA	NA	81.27
P2	57	Male	Former	IVB	Wild	15%	8	KRAS, PBRM1, TP53, STK11, KEAP1	78.1
P3	72	Female	Never	IIB	L858R	<1%	3.4	APC, NOTCH2	79.21
P4	72	Female	Never	IIB	19del	<1%	5.7	EGFR T790M, TP53	86.91
P5	62	Male	Former	IA3	Wild	<1%	NA	NA	90.16
P6	53	Female	Never	IA3	19del	<1%	NA	NA	77.93
P7	54	Male	Former	IA3	Wild	<1%	NA	NA	91.54
P8	68	Male	Former	IA3	L858R	<1%	NA	NA	96.9
P9	58	Female	Never	IIA	Wild	<1%	NA	NA	97.96

NA: not available. TMB: tumor mutation burden.