

Additional file 1: Table S1 Clinical information of PDXs used for TIL studies

Case ID	Age	Sex	Ethnicity	Pathology	Grades	Stages	Tumor Volume	Smoke status	Pretreatment	Passage	In vivo Days
1	70	F	White	adenocarcinoma	Moderate	T2aN0M0	7.62	Former	NO	F1	292
2	77	M	White	adenocarcinoma	Moderate	T2bN1M0	156.00	Former	Carboplatin/Pemetrexed	F1	90
3	65	F	White	adenocarcinoma	Poor	T4N2M0	7.20	Former	NO	F1	181
4	74	M	White	adenocarcinoma	Moderate	T3N0M0	0.72	Former	NO	F1	166
5	66	F	White	adenocarcinoma	Poor	T2bN0M0	110.00	Former	NO	F1	128
6	70	F	White	squamous cell ca.	Moderate	T3N2M1	273.00	Former	NO	F1	98
7	39	F	White	adenocarcinoma	Moderate	T2aN1M0	29.64	Never	NO	F1	92
8	72	F	White	squamous cell ca.	Moderate	T2aN0M0	63.00	Former	NO	F1	144
9	83	M	White	adenocarcinoma	Moderate	T2aN0M0	45.15	Former	NO	F1	88
10	62	M	White	squamous cell ca.	Poor	T2bN2M0	122.50	Current	NO	F1	69
11	66	F	White	adenocarcinoma	Poor	T2bN1M0	96.00	Former	Cisplatin/Docetaxel	F1	64
12	70	F	White	adenocarcinoma	Moderate	T2aN0M1	43.74	Current	NO	F1	121
13	59	F	White	adenocarcinoma	Poor	T3N1M0	21.00	Former	NO	F1	98
14	82	F	White	adenocarcinoma	Moderate	T3N0M0	162.00	NA	NO	F2	275
15	68	M	White	adenocarcinoma	Moderate	T1N0M0	1.50	Former	NO	F2	514
16	70	F	Hispanic	adenocarcinoma	Well	T3N0M0	157.50	NA	NO	F2	97
17	65	F	White	adenocarcinoma	Poor	T2aN1M1	25.20	Former	NO	F2	315
18	54	F	Black	giant/spindle cell	Poor	T3N2M0	48.00	Former	NO	F2	252
19	55	M	White	adenocarcinoma	Poor	T3N2M0	20.25	Former	Cisplatin/Pemetrexed	F2	84
20	70	F	White	squamous cell ca.	poor	T1bn0m0	9.35	Current	NO	F2	211
21	67	F	White	adenocarcinoma	NA	TxN2M1		Former	Carboplatin/Pemetrexed	F2	239
22	57	F	Asian	neuroendocrine ca.	Well	T2aN0M0	27.00	Former	NO	F2	237
23	85	M	White	adenosquamous ca.	poor	T2bN1M0	73.30	Former	NO	F2	136
24	80	F	White	squamous cell ca.	poor	T3N1M1	110.00	Former	NO	F2	125
25	70	M	Hispanic	pleomorphic	Poor	T3N0M0	420.00	Former	NO	F2	136

Additional file 1: Table S2 Clinical information of fresh tumor samples used for TIL culture and analysis

Case ID	Age	Sex	Ethnicity	Pathology	Grades	Stages	Tumor Volume (cm3)	Smoke status	Pretreatment
PT26	78	M	White	Squamous cell ca.	Moderate	T2N0M0	43.4	Former	No
PT27	57	M	White	Squamous cell ca.	Moderate	T1N0M0	19.2	Never	Cisplatin/Taxol
PT28	41	M	White	Neuroendocrine ca.	Moderate	T4N1MX	169.2	Never	Cisplatin/etoposide
PT29	66	F	White	Adenocarcinoma	Well	T1N1M0	13.3	Former	No