

Table S1A. Pathological and KEAP1 mutation details of

Patient Number	Race	Pathology	Stage	Tumor DNA Sequenced	Normal DNA Sequenced	Mutation Status
PT-1	AS	Adenocarcinoma	2B	Yes	Yes	WT
PT-2	AA	Adenocarcinoma	1A	Yes	Yes	WT
PT-3	CA	Adenocarcinoma	2B	yes	Yes	WT
PT-4	CA	Squamous	1A	Yes	Yes	WT
PT-5	CA	Squamous	1B	Yes	Yes	WT
PT-6	CA	Adenocarcinoma	2B	Yes	Yes	WT
PT-7	CA	Adenocarcinoma	2B	Yes	Yes	WT
PT-8	CA	Adenocarcinoma	3B	Yes	Yes	WT
PT-9	CA	Squamous	1A	Yes	Yes	WT
PT-10	AA	Squamous	1B	Yes	Yes	WT
PT-11	CA	Squamous	1B	Yes	Yes	WT
PT-12	CA	Large Cell	1B	Yes	Yes	WT
PT-13	AA	Squamous	1B	Yes	Yes	WT
PT-14	AA	Squamous	1A	Yes	Yes	WT
PT-15	CA	Squamous	1B	Yes	Yes	WT
PT-16	CA	Adenocarcinoma	2B	Yes	Yes	WT
PT-17	CA	Adenocarcinoma	3B	Yes	Yes	2 bp deletion
PT-18	CA	Adenocarcinoma	1B	Yes	Yes	1 bp deletion
PT-19	CA	Squamous	3A	Yes	Yes	WT
PT-20	CA	Squamous	3A	Yes	Yes	WT
PT-21	CA	Squamous	3B	Yes	Yes	WT
PT-22	CA	Squamous	1B	Yes	Yes	WT
PT-23	AA	Adenocarcinoma	3A	Yes	Yes	A-T transversion
PT-24	CA	Adenocarcinoma	3A	Yes	N.D.	WT
PT-25	AA	Squamous	1B	Yes	N.D.	WT
PT-26	CA	Large Cell	1B	Yes	N.D.	WT
PT-27	CA	Large Cell	1B	Yes	N.D.	WT
PT-28	AA	Squamous	1B	Yes	N.D.	WT
PT-29	AA	Adenocarcinoma	1B	Yes	N.D.	G-T transversion
PT-30	CA	Adenocarcinoma	1B	Yes	N.D.	WT
PT-31	CA	Adenocarcinoma	1B	Yes	N.D.	1 bp deletion
PT-32	CA	Adenocarcinoma	4	Yes	N.D.	WT
PT-33	CA	Adenocarcinoma	2B	Yes	Yes	WT
PT-34	CA	Large Cell	1B	Yes	N.D.	WT

PT-35	CA	Large Cell	1B	Yes	Yes	A-T transversion
PT-36	CA	Adenocarcinoma	3A	Yes	N.D.	WT
PT-37	CA	Squamous	1B	Yes	N.D.	WT
PT-38	CA	Adenocarcinoma	1A	Yes	N.D.	WT
PT-39	CA	Large Cell	1B	Yes	N.D.	WT
PT-40	CA	Adenocarcinoma	3A	N.D.	N.D.	N.D.
PT-41	CA	Adenocarcinoma	1B	N.D.	N.D.	N.D.
PT-42	CA	Squamous	3A	N.D.	N.D.	N.D.
PT-43	AA	IMT	4	N.D.	N.D.	N.D.
PT-44	CA	Squamous	2B	N.D.	N.D.	N.D.
PT-45	CA	Adenocarcinoma	UK	Yes	N.D.	WT

PT, primary tumor; AA, African American; CA, Caucasian; AS, Asian; UK, Unknown; NI, N Determined; aa, amino acid; IMT, Inflammatory myofibroblastic tumor.

Table S1B. Pathological and KEAP1 mutation details of pleural fluid samples.

Patient	Nur	Race	Pathology	Stage	PF DNA	Seque	Normal DNA	Se	Mutation	Status
PF-1	CA	Adenocarcinoma	4	Yes	NA	WT				
PF-2	AA	Adenocarcinoma	4	Yes	NA	WT				
PF-3	CA	Adenocarcinoma	4	Yes	NA	G-A transversion				
PF-4	AA	Adenocarcinoma	4	Yes	NA	1 bp Insertion				
PF-5	CA	NSCLC	3B	Yes	NA	WT				
PF-6	CA	Adenocarcinoma	UK	Yes	NA	WT				
PF-7	CA	Adenocarcinoma	4	Yes	NA	WT				
PF-8	CA	Adenocarcinoma	3B	Yes	NA	18 bp Deletion				
PF-9	CA	Adenocarcinoma	3B	Yes	NA	18 bp Deletion				
PF-10	CA	Adenocarcinoma	4	Yes	NA	WT				
PF-11	AA	Adenocarcinoma	3B	Yes	NA	WT				
PF-12	CA	Adenocarcinoma	4	Yes	NA	WT				
PF-13	AA	Adenocarcinoma	4	Yes	NA	WT				
PF-14	CA	Small Cell	4	Yes	NA	WT				
PF-15	CA	Small Cell	4	Yes	NA	WT				
PF-16	CA	Adenocarcinoma	4	Yes	NA	WT				

PF, Pleural fluid sample; AA, African American; CA, Caucasian; UK, Unknown; NA, Not available

primary tumors.

Amino acid change	LOH status		Smoker
	KEAP-DM1	KEAP-UM1	
None	WT	MIC	Yes
None	LOH	LOH	Yes
None	WT	NI	Yes
None	WT	WT	Yes
None	LOH	NI	No
None	LOH	NI	Yes
None	NI	NI	Yes
None	WT	NI	Yes
None	WT	NI	Yes
None	LOH	MIC	Yes
None	WT	NI	Yes
None	WT	MIC	Yes
None	WT	WT	Yes
None	LOH	LOH	Yes
None	WT	WT	Yes
None	WT	NI	Yes
Stop Codon	LOH	NI	Yes
Stop Codon	LOH	WT	Yes
None	WT	NI	Yes
None	WT	WT	Yes
None	MIC	WT	No
None	WT	MIC	Yes
Q-L	LOH	LOH	Yes
None	WT	WT	Yes
None	WT	WT	Yes
None	WT	NI	Yes
None	LOH	NI	Yes
None	WT	NI	Yes
V-F	LOH	LOH	Yes
None	MIC	WT	Yes
Stop Codon	MIC	NI	Yes
None	WT	WT	No
None	NI	LOH	Yes
None	WT	WT	Yes

Q-L	LOH	WT	Yes
None	LOH	LOH	Yes
None	LOH	LOH	Yes
None	LOH	MIC	Yes
None	LOH	NI	Yes
N.D.	N.D.	N.D.	Yes
N.D.	N.D.	N.D.	Yes
N.D.	N.D.	N.D.	Yes
N.D.	N.D.	N.D.	Yes
N.D.	N.D.	N.D.	Yes
None	N.D.	N.D.	Yes

Non-informative, WT, wild type; N.D., Not

Amino acid change	LOH status		Smoker
	KEAP-DM	KEAP-UM1	
None	NI	NI	No
None	NI	NI	Yes
I-V	NI	NI	Yes
Stop codon	NI	NI	Yes
None	NI	NI	Yes
None	NI	NI	Yes
None	NI	NI	No
6 aa deletion	NI	NI	Yes
6 aa deletion	NI	NI	Yes
None	NI	NI	Yes
None	NI	NI	Yes
None	NI	NI	No
None	NI	NI	UK
None	NI	NI	Yes
None	NI	NI	Yes
None	NI	NI	Yes

NI, Non-informative, WT, wild type; aa, amino acid; UK, unknown