

**Table S1** Types of *EGFR*, *KRAS* and *p53* gene alterations in lung cancer cell lines

Cell line	Histological type	Mutation			
		<i>EGFR</i>	<i>KRAS</i>	<i>p53</i>	<i>LKB1</i>
11-18	AdC	L858R		K164Ter	HD
A427	AdC		G12D		HD
A549	AdC		G12S		Mut
ABC-1	AdC			P278S	
H23	AdC		G12C	M246I	Mut
H322	AdC			R248L	
H441	AdC		G12V	R158L	
H1395	AdC				HD
H1437	AdC			R267P	
H1648	AdC			35 42stop	
H1703	AdC			(IVS8 +1g>t)	
H2009	AdC		G12S	R273L	
H2087	AdC			V157F	
H2122	AdC		G12C	C176F	HD
H2126	AdC			E62Ter	HD
H2347	AdC				
HCC44	AdC		G12C	S94Ter+R175L	Mut
HCC78	AdC			S241F	
HCC515	AdC		G12D	L194F	Mut
Ma-1	AdC	E746-A750 del		R248Q	
Ma-17	AdC			Y126C	
Ma-24	AdC	D709G		R337C	HD
Ma-26	AdC				
Ma-29	AdC			S121Ter	HD+Mut
PC-3	AdC	L747-E749del, A750P		R282W	
PC-7	AdC			H214R	Mut
PC-9	AdC	E746-A750 del		R248Q	
PC-14	AdC			R248W	
RERF-LCMS	AdC			R248L	
RERF-LCOK	AdC			F113C	
VMRC-LCD	AdC			R175H	Mut
H596	AdSqC			G245C	
HCC366	AdSqC			Y220C	HD
EBC-1	SqC			E171Ter	
H157	SqC		G12R	35 42stop+E298Ter	HD
H520	SqC			W146Ter	
HCC15	SqC			D259V	HD
HCC95	SqC				
LC1-Sq	SqC			M237I	
LK2	SqC			V272M	
PC-10	SqC			G245C	
SK_MES_1	SqC			E298Ter	
Sq1	SqC			(IVS4 +2t>c)	
SQ5	SqC				HD
H1155	LCC		Q61H	R213R+R273H	
H1299	LCC			HD	
Lu65	LCC		G12C	E11Q	HD
Lu99	LCC		G12C		
Ma-2	LCC			R175H	
Ma-25	LCC			M237I	Mut
PC-13	LCC			G334V	Mut
H69	SCLC			E171Ter	
H82	SCLC				

H128	SCLC		
H209	SCLC		
H526	SCLC		
H841	SCLC	C242S	
H1184	SCLC	D259V	HD
H1819	SCLC		
H1963	SCLC	V147D	
H2107	SCLC	K101Ter	
H2141	SCLC	R209Ter	
H2171	SCLC	Q144Ter	
H2195	SCLC	V157F	
HCC33	SCLC	C242Y	
Lu134	SCLC	P278L	
Lu135	SCLC	G244C	
Lu139	SCLC	V157F	
Ms18	SCLC		
N417	SCLC	E298Ter	

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HD, homozygous deletion; Mut, point mutation