

**Supplementary Table 1. Mutational status of NSCLC cell lines.**

	<i>KRAS</i>	<i>STK11</i>	<i>TP53</i>	<i>CDKN2A</i>	<b>OTHERS</b>
<b>NCI-H23</b>	MUT (G12C)	MUT	MUT	WT	
<b>NCI-H2122</b>	MUT (G12C)	MUT	MUT	MUT	CDH1
<b>NCI-H1734</b>	MUT (G13C)	MUT	MUT	WT	RB1
<b>NCI-H460</b>	MUT (Q61H)	MUT	WT	MUT	PIK3CA
<b>A549</b>	MUT (G12S)	MUT	WT	MUT	
<b>A427</b>	MUT (G12D)	MUT	WT	MUT	CTNNB1
<b>NCI-H727</b>	MUT (G12V)	WT	MUT	WT	
<b>H441</b>	MUT (G12V)	WT	MUT	WT	
<b>NCI-H1792</b>	MUT (G12C)	WT	MUT	WT	
<b>SK-LU-1</b>	MUT (G12D)	WT	MUT	MUT	
<b>NCI-H358</b>	MUT (G12D)	WT	WT	WT	
<b>CALU-1</b>	MUT (G12C)	WT	WT	WT	
<b>H1171</b>	MUT (G12C)	nd	nd	nd	
<b>NCI-H322M</b>	WT	WT	MUT	MUT	
<b>NCI-H520</b>	WT	WT	MUT	MUT	
<b>NCI-H2170</b>	WT	WT	MUT	MUT	
<b>HOP92</b>	WT	WT	MUT	MUT	NF1
<b>SK-MES-1</b>	WT	WT	MUT	MUT	
<b>EKVX</b>	WT	WT	MUT	WT	
<b>NCI-H522</b>	WT	WT	MUT	WT	
<b>NCI-H510A</b>	WT	WT	MUT	WT	
<b>NCI-H226</b>	WT	WT	WT	MUT	
<b>HCC78</b>	WT	nd	nd	nd	
<b>HCC95</b>	WT	nd	nd	nd	
<b>LUDLU-1</b>	WT	nd	nd	nd	