

Supplementary information

CTLA4 blockade abrogates *KEAP1/STK11*-related resistance to PD-(L)1 inhibitors

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Supplementary Table 1. sgRNA sequences utilized for multiplexed assessment of TSG targets	
sgRNA target	sgRNA sequence
<i>Apc</i>	TTGAGCGTAGTTTCACTCCG
<i>Arid2</i>	GGCAGTTCCACCACAGCAGA
<i>Atm</i>	GTATCTCAGCAACAGTGGCT
<i>Atrx</i>	CAGGTTCATCAAGGTCAAAG
<i>Brca2</i>	GTACCCAAAGTCTCGTCAAG
<i>Cdkn2a</i>	CGGTGCAGATTCGAACTGCG
<i>Cmtr2</i>	GTAAGCCACTCGATAATGAG
<i>Keap1</i>	TCAAATACGACTGCCCGCAG
<i>Kmt2d</i>	TTGTGCTCTCTGTAAGTGGC
<i>Mga</i>	TTATACCGATGACTATCCAC
<i>Nf1</i>	CCAAACGTAAAGCAGCAGTG
<i>Pten</i>	TCACCTGGATTACAGACCCG
<i>Ptprd</i>	CTTGGTGCGGAGCACATCTG
<i>Rb1</i>	TCTTACCAGGATTCCATCCA
<i>Rbm10</i>	GTATTTCTGAACAGATCCG
<i>Rnf43</i>	TAGACAGATGGCACACACGG
<i>Setd2</i>	TCTCTAATCCATCTTCCCAG
<i>Smad4</i>	GATGTGTCATAGACAAGGTG
<i>Stag2</i>	GGTCAAGAAGCGCTATGTCC
<i>Stk11</i>	CCACTCTCTGACCTACTCCG
<i>Trp53</i>	AGGAGCTCCTGACACTCGGA
<i>Tsc1</i>	ATCGTGTGGCTCCTGCAAGG

Supplementary Table 2. PCR protocol			
Step	Temperature (°C)	Time	Cycles
Initial Denaturation	98°C	30 seconds	
Denaturation	98°C	10 seconds	x27
Annealing	63°C	10 seconds	
Extension	72°C	10 seconds	
Final Extension	72°C	5 minutes	
Hold	4°C	∞	