

**Table S2.** Tumors selection workflow

	Mutations count in <i>TP53</i> DBD					Selected tumors Mutation counts per tumor type	
	R175	R213	R248	R273	R282		
<b>Adrenocortical cancer</b>	0	0	0	1	0		1
<b>Bladder urothelial carcinoma</b>	3	1	20	7	2	X	33
<b>Brain lower grade glioma</b>	8	1	11	66	6	X	92
<b>Breast invasive carcinoma</b>	15	0	7	17	3	X	42
<b>Cholangiocarcinoma</b>	0	0	1	0	0		1
<b>Colon adenocarcinoma</b>	17	2	19	16	10	X	64
<b>Diffuse large B-cell lymphoma</b>	0	0	1	1	0		2
<b>Esophageal carcinoma</b>	9	0	13	10	6	X	38
<b>Glioblastoma multiforme</b>	3	0	4	4	1	X	12
<b>Head &amp; neck squamous cell carcinoma</b>	6	1	16	14	10	X	47
<b>Kidney chromophobe</b>	0	0	0	0	1		1
<b>Kidney clear cell carcinoma</b>	0	1	1	0	0		2
<b>Liver hepatocellular carcinoma</b>	1	2	3	2	0	X	8
<b>Lung adenocarcinoma</b>	1	0	5	9	2	X	17
<b>Lung squamous cell carcinoma</b>	8	2	10	15	5	X	40
<b>Mesothelioma</b>	0	0	0	2	0		2
<b>Pancreatic adenocarcinoma</b>	4	0	8	5	3	X	20
<b>Prostate adenocarcinoma</b>	2	0	5	1	2	X	10
<b>Rectum adenocarcinoma</b>	7	1	7	7	8	X	30
<b>Sarcoma</b>	5	1	4	1	0		11
<b>Stomach adenocarcinoma</b>	12	0	7	17	6	X	42
<b>Thymoma</b>	0	0	1	1	0		2
<b>Uterine carcinosarcoma</b>	2	0	7	4	0	X	13
<b>Uterine corpus endometrioid carcinoma</b>	9	0	10	14	6	X	39
<b>Total counts</b>	112	12	160	214	71		569