

**S7 Table.** Different pathological types showing TMB median and range derived from 295- and 1021-gene panels, respectively

Pathological type	No. of patients in total (%)	Overall TMB Median (range)	No. of cases using 295- gene panel	295-TMB median (range)	No. of cases using 1021- gene panel	1021-TMB median (range)	p-value
Adenocarcinoma	1582 (67.84)	6 (2-802)	1139	6 (2-145)	443	7 (2-802)	< 0.001
Mesenchymal tumors	326 (13.98)	4 (2-227)	271	4 (2-227)	55	5 (2-21)	0.175
Squamous cell carcinoma	195 (8.36)	7 (2-41)	166	6 (2-41)	29	10 (2-37)	< 0.001
Adeno-squamous cell carcinoma	54 (2.32)	5 (2-34)	15	7 (2-34)	39	3 (2-8)	0.002
Neuroendocrine carcinoma	45 (1.93)	8 (2-50)	36	8 (2-26)	9	7 (3-50)	0.429
Blastoma	22 (0.94)	4 (2-12)	20	4 (2-12)	2	NA	NA
Unclassified	108 (4.63)						

NA, not available; TMB, tumor mutational burden.