

**Supplemental Table S6.**

APOBEC enrichment and weights of mutational signatures associated with APOBEC activity (Signatures 2 and 13) for MSS cancers. Samples in *italic* were excluded from the analysis as APOBEC enriched.

Patient	APOBEC enrichment	Signature 2 weight	Signature 13 weight	Cancer type
TCGA-A6-2681	1.04	0	0	COAD
TCGA-A6-2683	1.24	0	0	COAD
TCGA-AA-3666	1.81	0	0	COAD
TCGA-AA-3956	1.56	0	0	COAD
TCGA-AA-A01S	1.43	0	0	COAD
TCGA-AA-A02O	1.68	0	0	COAD
TCGA-AA-A02Y	1.38	0	0	COAD
TCGA-AA-A03F	1.27	0	0	COAD
TCGA-A5-A0GE	1.26	0	0	UCEC
TCGA-AP-A052	1.43	0	0	UCEC
TCGA-AP-A053	1.35	0	0	UCEC
TCGA-AP-A05A	2.46	0	0.0892	UCEC
TCGA-AP-A05D	1.46	0	0	UCEC
TCGA-AP-A0L8	1.04	0	0	UCEC
<i>TCGA-AP-A0L9</i>	3.93	0.1023	0.1357	UCEC
TCGA-AP-A0LH	1.69	0	0	UCEC
<i>TCGA-AP-A0LI</i>	6.06	0.1567	0.1676	UCEC
TCGA-AP-A0LL	1.16	0	0	UCEC
TCGA-AP-A0LO	1.01	0	0	UCEC
<i>TCGA-B5-A0JN</i>	3.19	0.0685	0.1098	UCEC
<i>TCGA-BK-A0CC</i>	5.96	0.1496	0.1616	UCEC
TCGA-BS-A0TC	2.69	0	0	UCEC
TCGA-BS-A0TD	1.07	0	0	UCEC
TCGA-BS-A0TG	1.30	0	0	UCEC
<i>TCGA-D1-A16G</i>	3.96	0.1250	0.1029	UCEC
TCGA-AX-A1CI	1.16	0	0	UCEC
TCGA-EY-A1GW	1.16	0	0	UCEC