

Supplementary Table 1. Summary of cancer types and patient counts from The Cancer Genome Atlas that are included in this study.

Cancer Type (Abbreviation)	Total Patients	Patients Analyzed (Patients Excluded)
Adrenocortical carcinoma (ACC)	80	80 (0)
Bladder urothelial carcinoma (BLCA)	412	407 (5)
Brain lower grade glioma (LGG)	515	508 (3)
Breast invasive carcinoma (BRCA)	1098	1065 (33)
Cervical squamous cell carcinoma and endocervical adenocarcinoma (CESC)	308	289 (19)
Cholangiocarcinoma (CHOL)	36	36 (0)
Colon adenocarcinoma (COAD)	459	424 (35)
Esophageal carcinoma (ESCA)	185	184 (1)
Head and neck squamous cell carcinoma (HNSC)	528	522 (6)
Kidney chromophobe (KICH)	66	65 (1)
Kidney renal clear cell carcinoma (KIRC)	536	514 (22)
Kidney renal papillary cell carcinoma (KIRP)	291	288 (3)
Liver hepatocellular carcinoma (LIHC)	377	366 (11)
Lung adenocarcinoma (LUAD)	521	500 (21)
Lung squamous cell carcinoma (LUSC)	504	472 (32)
Mesothelioma (MESO)	87	86 (1)
Ovarian serous cystadenocarcinoma (OV)	585	484 (101)
Pancreatic adenocarcinoma (PAAD)	185	177 (8)
Pheochromocytoma and paraganglioma (PCPG)	179	179 (0)
Prostate adenocarcinoma (PRAD)	498	494 (4)
Rectal adenocarcinoma (READ)	171	155 (16)
Sarcoma (SARC)	261	259 (0)
Skin cutaneous melanoma (SKCM)	570	96 (474)
Stomach adenocarcinoma (STAD)	443	413 (13)
Testicular germ cell tumor (TGCT)	150	134 (16)
Thyroid carcinoma (THCA)	507	505 (2)
Thymoma (THYM)	124	123 (1)
Uterine corpus endometrial carcinoma (UCEC)	548	536 (12)
Uterine carcinosarcoma (UCS)	57	56 (1)
Uveal melanoma (UVM)	80	80 (0)
Total	10,361	9,497 (864)