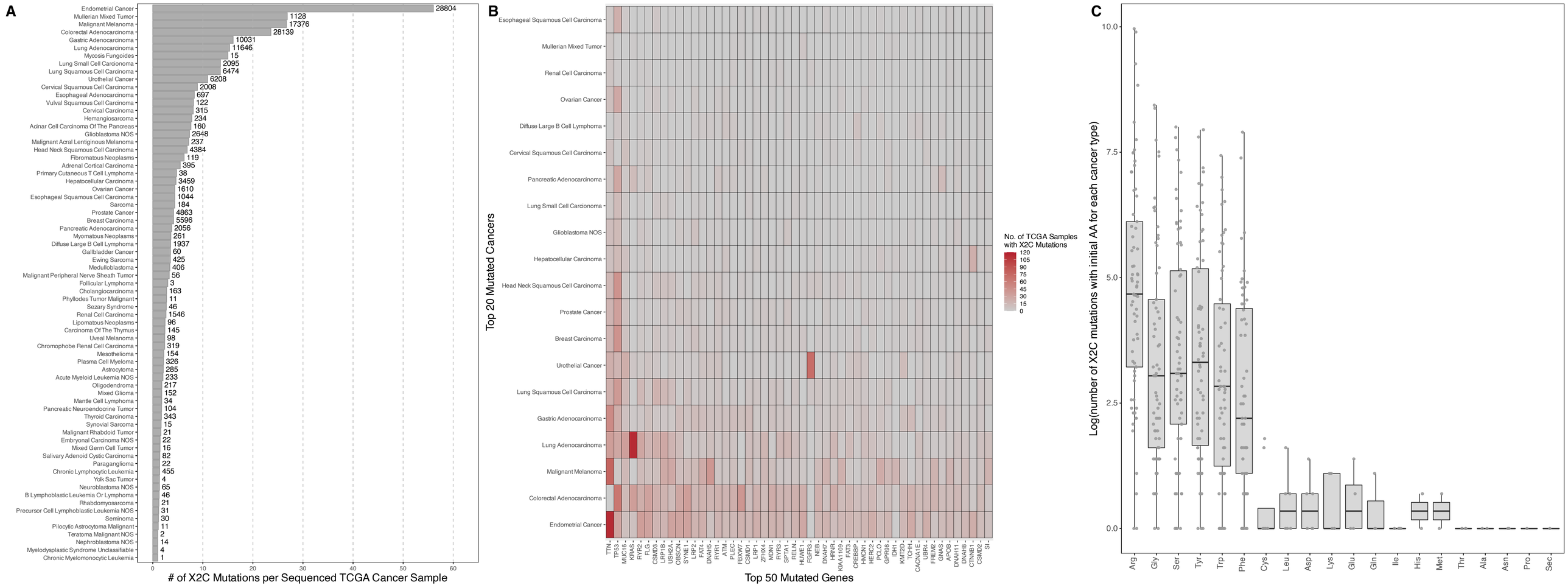
A
Endometrial Cancer 28804
Mullerian Mixed Tumor 1128
Malignant Melanoma 17376
Colorectal Adenocarcinoma 28139
Gastric Adenocarcinoma 10031
Lung Adenocarcinoma 11646
Mycosis Fungoides 15
Lung Small Cell Carcionoma 2095
Lung Squamous Cell Carcinoma 6474
Urothelial Cancer 6208
Cervical Squamous Cell Carcinoma 2008
Esophageal Adenocarcinoma 697
Vulval Squamous Cell Carcinoma 122
Cervical Carcinoma 315
Hemangiosarcoma 234
Acinar Cell Carcinoma Of The Pancreas 160
Glioblastoma NOS 2648
Malignant Acral Lentiginous Melanoma 237
Head Neck Squamous Cell Carcinoma 4384
Fibromatous Neoplasms 119
Adrenal Cortical Carcinoma 395
Primary Cutaneous T Cell Lymphoma 38
Hepatocellular Carcinoma 3459
Ovarian Cancer 1610
Esophageal Squamous Cell Carcinoma 1044
Sarcoma 184
Prostate Cancer 4863
Breast Carcinoma 5596
Pancreatic Adenocarcinoma 2056
Myomatous Neoplasms 261
Diffuse Large B Cell Lymphoma 1937
Gallbladder Cancer 60
Ewing Sarcoma 425
Medulloblastoma 406
Malignant Peripheral Nerve Sheath Tumor 56
Follicular Lymphoma 3
Cholangiocarcinoma 163
Phyllodes Tumor Malignant 11
Sezary Syndrome 46
Renal Cell Carcinoma 1546
Lipomatous Neoplasms 96
Carcinoma Of The Thymus 145
Uveal Melanoma 98
Chromophobe Renal Cell Carcinoma 319
Mesothelioma 154
Plasma Cell Myeloma 326
Astrocytoma 285
Acute Myeloid Leukemia NOS 233
Oligodendroma 217
Mixed Glioma 152
Mantle Cell Lymphoma 34
Pancreatic Neuroendocrine Tumor 104
Thyroid Carcinoma 343
Synovial Sarcoma 15
Malignant Rhabdoid Tumor 21
Embryonal Carcinoma NOS 22
Mixed Germ Cell Tumor 16
Salivary Adenoid Cystic Carcinoma 82
Paraganglioma 22
Chronic Lymphocytic Leukemia 455
Yolk Sac Tumor 4
Neuroblastoma NOS 65
B Lymphoblastic Leukemia Or Lymphoma 46
Rhabdomyosarcoma 21
Precursor Cell Lymphoblastic Leukemia NOS 31
Seminoma 30
Pilocytic Astrocytoma Malignant 11
Teratoma Malignant NOS 2
Nephroblastoma NOS 14
Myelodysplastic Syndrome Unclassifiable 4
Chronic Myelomonocytic Leukemia 1
0 10 20 30 40 50 60
# of X2C Mutations per Sequenced TCGA Cancer Sample
B
Top 20 Mutated Cancers
Esophageal Squamous Cell Carcinoma
Mullerian Mixed Tumor
Renal Cell Carcinoma
Ovarian Cancer
Diffuse Large B Cell Lymphoma
Cervical Squamous Cell Carcinoma
Pancreatic Adenocarcinoma
Lung Small Cell Carcionoma
Glioblastoma NOS
Hepatocellular Carcinoma
Head Neck Squamous Cell Carcinoma
Prostate Cancer
Breast Carcinoma
Urothelial Cancer
Lung Squamous Cell Carcinoma
Gastric Adenocarcinoma
Lung Adenocarcinoma
Malignant Melanoma
Colorectal Adenocarcinoma
Endometrial Cancer
TTN TP53 MUC16 KRAS RYR2 FAT3 CSMD3 LRP1B USH2A OBSCN SYNE1 LRP2 FAT4 DNAH5 RYR1 ATM PLCE1 FBXW7 CSMD1 LRP1 ZFHX4 MDN1 RYR3 SPTA1 RELN HUWE1 FGFR3 NEB DNAH7 HRNR KIAA1109 FAT3 CREBBP HMCN1 HERC2 PCLO GPR98 DYNC1 KMT2D TCHH CACNA1E UBR4 FREM2 GNAS APOB DNAH11 DNAH8 CTNND1 CSMD2 SI
Top 50 Mutated Genes
No. of TCGA Samples with X2C Mutations
120 105 90 75 60 45 30 15 0
C
Log(number of X2C mutations with initial AA for each cancer type)
10.0 7.5 5.0 2.5 0.0
Arg Gly Ser Tyr Trp Phe Cys Leu Asp Lys Glu Gln Ile His Met Thr Ala Asn Pro Sec