

Supplementary Table 1 The siRNA sequence targeted to the UGDH gene

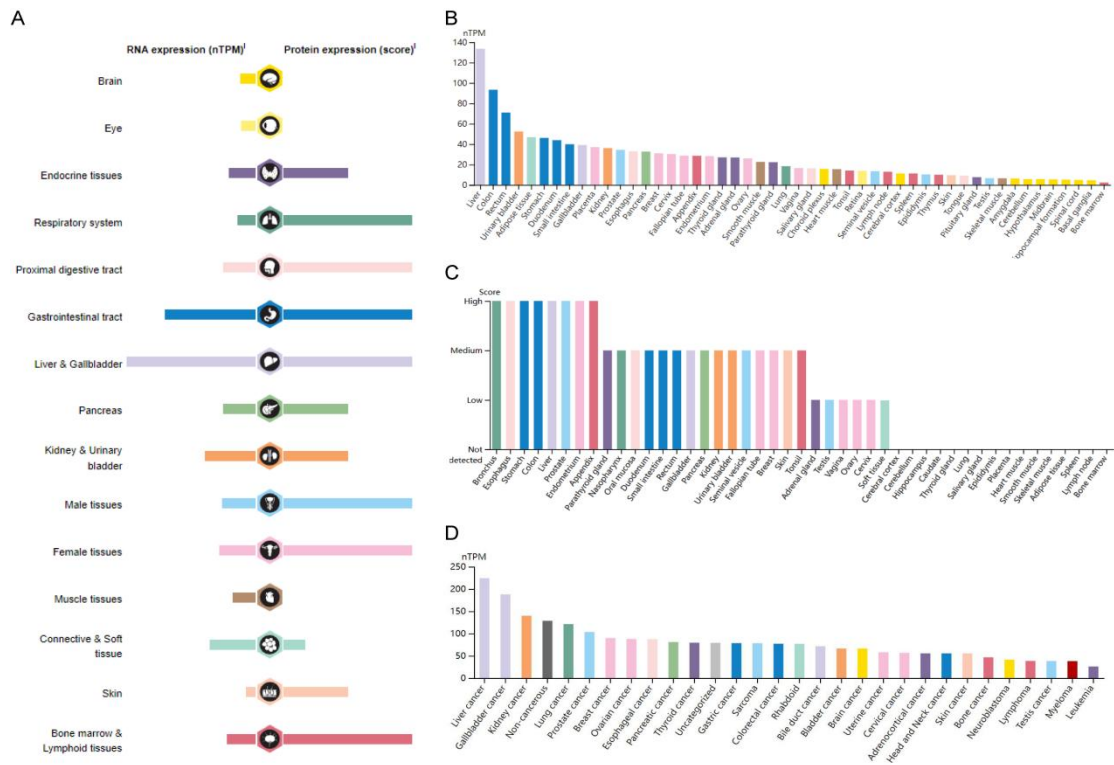
Number		Sequence
Si-UGDH-1	Sense	GAUGUCAAAUGAAUCAAGAATT
	Antisense	UUCUUGAUUCAUUGACAUCTT
Si-UGDH-2	Sense	CAGCAUUAACUCCAUAAGUTT
	Antisense	ACUUAUGGAGUUA AUGCUGTT
Si-UGDH-3	Sense	GAUUAUGAACGCAUUCAUATT
	Antisense	UAUGAAUGCGUUCAUAAUCTT

Supplementary Table 2 The primers of the genes

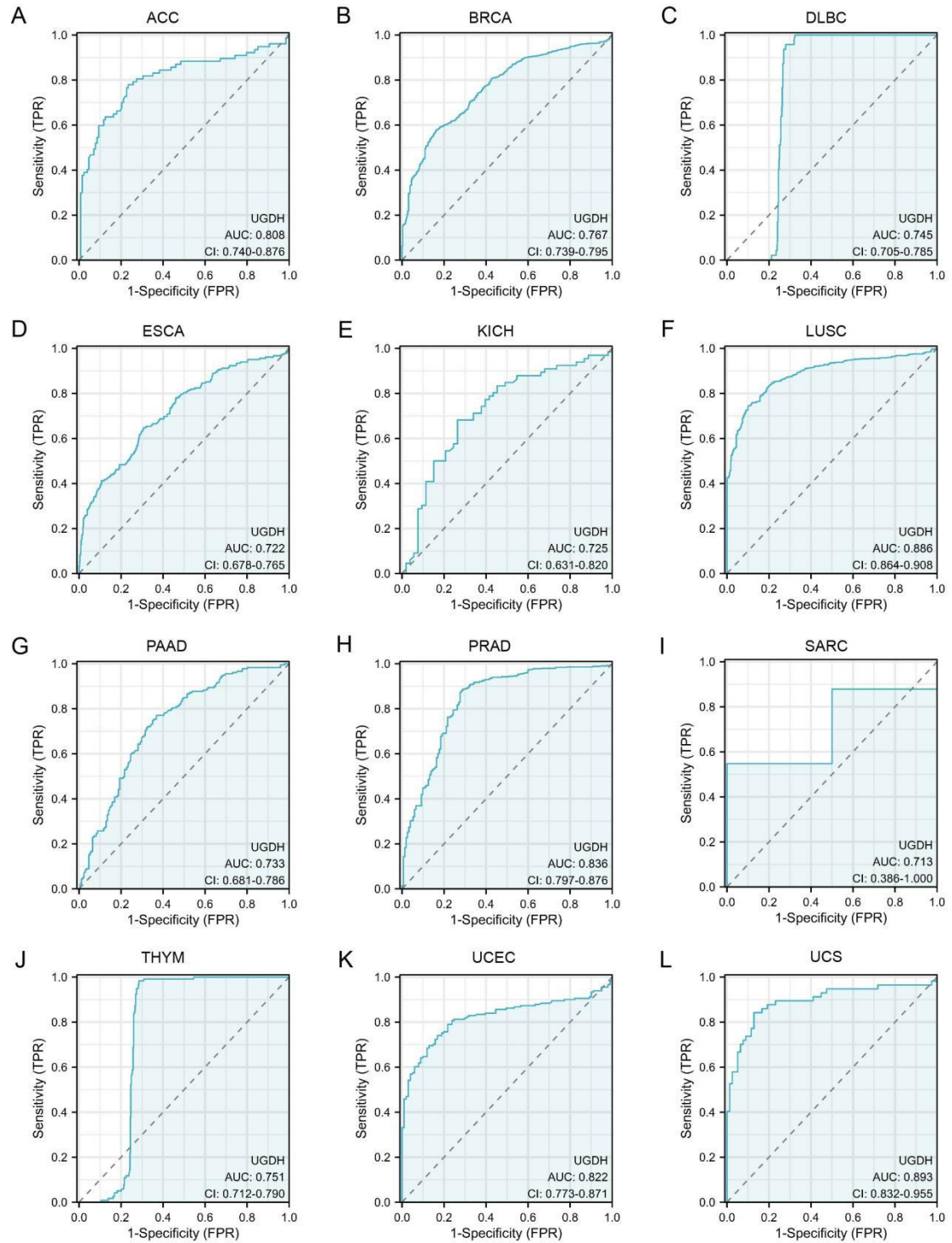
Species	Gene		Sequence
Human	UGDH	Forward Primer	CCCTGTGTGCTGTATATGAGC
		Reverse Primer	TGCTTATTCTCTGGGCAAGAAAA
	GAPDH	Forward Primer	GGAGCGAGATCCCTCCAAAAT
		Reverse Primer	GGCTGTTGTCATACTTCTCATGG
Rat	Ugdh	Forward Primer	ACTTGAATCTACAGGTTCTGTC
		Reverse Primer	CTCTGTCTGGGTTCTTTAGG
	Actb	Forward Primer	CTTCCTGGGTATGGAATCCT
		Reverse Primer	TCTTTACGGATGTCAACGTC

Supplementary Table 3 The abbreviation 33 types of cancers in TCGA

Abbreviation	Full Name
ACC	Adrenocortical carcinoma
BLCA	Bladder Urothelial Carcinoma
BRCA	Breast invasive carcinoma
CESC	Cervical squamous cell carcinoma and endocervical adenocarcinoma
CHOL	Cholangiocarcinoma
COAD	Colon adenocarcinoma
DLBC	Lymphoid Neoplasm Diffuse Large B-cell Lymphoma
ESCA	Esophageal carcinoma
GBM	Glioblastomamultiforme
HNSC	Head and Neck squamous cell carcinoma
KICH	Kidney Chromophobe
KIRC	Kidney renal clearcell carcinoma
KIRP	Kidney renal papillary cell carcinoma
LAML	Acute Myeloid Leukemia
LGG	Brain Lower Grade Glioma
LIHC	Liver hepatocellular carcinoma
LUAD	Lung adenocarcinoma
LUSC	Lung squamous cell carcinoma
MESO	Mesothelioma
OV	Ovarian serous cystadenocarcinoma
PAAD	Pancreatic adenocarcinoma
PCPG	Pheochromocytoma and Paraganglioma
PRAD	Prostate adenocarcinoma
READ	Rectum adenocarcinoma
SARC	Sarcoma
SKCM	Skin Cutaneous Melanoma
STAD	Stomach adenocarcinoma
TGCT	Testicular Germ Cell Tumors
THCA	Thyroid carcinoma
THYM	Thymoma
UCEC	Uterine Corpus Endometrial Carcinoma
UCS	Uterine Carcinosarcoma
UVM	Uveal Melanoma



Supplementary Figure 1 Expression of UGDH. (A) The summary of UGDH mRNA and protein expression in human organs and tissues. (B) Situation of UGDH mRNA expression summary in human organs and tissues. (C) Situation of UGDH protein expression summary in human organs and tissues. (D) Situation of UGDH mRNA expression in cell lines.



Supplementary Figure 2 ROC curves of UGDH in 12 cancers with AUC > 0.7.