

SUPPLEMENTARY TABLES

Supplementary Table 1. Abbreviations of cancers.

Abbreviations	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
COADREAD	Colon adenocarcinoma/Rectum adenocarcinoma Esophageal carcinoma
DLBC	Lymphoid Neoplasm Diffuse Large B-cell Lymphoma
ESCA	Esophageal carcinoma
FPPP	FFPE Pilot Phase II
GBM	Glioblastoma multiforme
GBMLGG	Glioma
HNSC	Head and Neck squamous cell carcinoma
KICH	Kidney Chromophobe
KIPAN	Pan-kidney cohort (KICH+KIRC+KIRP)
KIRC	Kidney renal clear cell 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
STAD	Stomach adenocarcinoma
SKCM	Skin Cutaneous Melanoma
STES	Stomach and Esophageal carcinoma
TGCT	Testicular Germ Cell Tumors
THCA	Thyroid carcinoma
THYM	Thymoma
UCEC	Uterine Corpus Endometrial Carcinoma
UCS	Uterine Carcinosarcoma
UVM	Uveal Melanoma
OS	Osteosarcoma
ALL	Acute Lymphoblastic Leukemia

Supplementary Table 2. The relevant reagents used in this article.

REAGENT	SOURCE	IDENTIFIER
Rabbit Anti-HOXB9	SANTA CRUZ BIOTECHNOLOGY	Cat# sc-130377
Rabbit Anti- Alpha Tubulin	Proteintech	Cat# 11224-1-AP
DAPI	Sigma-Aldrich	Cat# D9542
Crystal violet	Solarbio	Cat# C8470
Fetal bovine serum	Gibco	Cat# 10099141
PBS	ZSGB-BIO	Cat# ZLI 9061
Cell Counting Kit-8 Kit	Beyotime Institute of Biotechnology	Cat#C0037
Edu Kit	Ribobio	Cat#C10310
BCA protein assay kit	Beyotime	Cat#P0012

Supplementary Table 3. Primer sequences for qPCR.

Name	Sequences
Primers for real-time PCR:	
HOXB9 sense:	5'-CCATTTCTGGGACGCTTAGCA-3'
HOXB9 antisense:	5'-TGTAAGGGTGGTAGACGGACG-3'
GAPDH sense:	5'-GGTCGGAGTCAACGGATTTGGTCG-3'
GAPDH antisense:	5'-CCTCCGACGCTGCTTCACCAC-3'