

Table S1 Data of each lncRNAs transcriptome resources

Resource	Number of samples	Number of tissues	Number of lncRNAs
GTEX	8555	30	13125
HPA	95	27	15646
HBM2	16	16	15646
FANTOM	760	34	63132
TCGA	11093	33	15513

Table S2 Number of TE lncRNAs in cancer type and its corresponding normal tissue

TCGA	Normal tissue	Number of normal TEs	Number of cancer TEs	Number of intersection of cancer and tissues
LGG	brain	838	621	328
TGCT	testis	4684	526	271
LIHC	liver	277	456	199
GBM	brain	838	386	181
PRAD	prostate	194	312	102
KIRP	kidney	323	226	95
KIRC	kidney	323	343	79
KICH	kidney	323	438	77
THCA	thyroid	255	168	73
ACC	adrenal.gland	131	303	53
LUAD	lung	155	214	33
COAD	colon	80	188	25
LAML	bone.marrow	28	3356	23
PCPG	adrenal.gland	131	425	19
BLCA	bladder	41	161	17
ESCA	esophagus	60	208	12
PAAD	pancreas	48	90	11
BRCA	breast	44	188	10
SKCM	skin	113	311	9
CHOL	gall.bladder	30	151	8
LUSC	lung	155	156	7
OV	ovary	140	289	7
STAD	stomach	51	198	7
UCEC	uterus	10	148	2