Supplementary Materials

Supplementary Tables

Table S1. Basic traits of the seven microarray datasets from the Gene Expression Omnibus and The Cancer Genome Atlas.

Data source	Platform	Series	Sample size (T/N)
mRNA	GPL13376	GSE28425	7/4
	GPL6102	GSE36004	7/4
	GPL20148	GSE99671	18/18
	GPL20301	GSE126209	6/5
	NONE	TARGET	172/0
miRNA	GPL8227	GSE28425	7/4
miRNA	GPL15497	GSE79181	25/0
circRNA	GPL27741	GSE140256	3/3

circRNA: circular RNA; miRNA: microRNA; TARGET: Therapeutically Applicable

Research To Generate Effective Treatments; T/N: Tumor/Normal

Table S2. Basic characteristics of the nine differentially expressed circRNAs

Circbase ID	Circbank ID	Position	logFC	Best	Gene
				Transcript.	symbol
hsa_circ_000	hsa_circSLC35E2B	chr1:1601102	-5.726396	ENSG00000	SLC35E2
0006	_001	-1666274		189339	В
hsa_circ_001	hsa_circARHGEF1	chr1:1790704	4.720786	ENSG00000	ARHGE
0220	0L_022	7-18024370		074964	F10L
hsa_circ_004	hsa_circP4HB_004	chr17:798130	-5.151344	ENSG00000	P4HB
6264		17-79817263		185624	
hsa_circ_000	hsa_circBLNK_001	chr10:979997	3.918484	ENSG00000	BLNK
0253		87-97999925		095585	
hsa_circ_007	hsa_circFAM120B_	chr6:1706158	-3.408189	ENSG00000	FAM120
8767	001	43-		112584	В
		170639638			
hsa_circ_009	hsa_circSFMBT2_0	chr10:731885	-3.031948	ENSG00000	SFMBT2
4088	16	3-7407477		198879	
hsa_circ_009	hsa_circFADS2_00	chr11:616156	-3.652404	ENSG00000	FADS2
6041	7	30-61616333		134824	
hsa_circ_002	hsa_circDOCK1_00	chr10:128594	2.257567	ENSG00000	DOCK1
0378	1	022-		150760	
		128926028			
hsa_circ_004	hsa_circKEAP1_00	chr19:106100	-2.305592	ENSG00000	KEAP1
9271	1	70-10610756		079999	

Table S3. Index of concordance (C-index) and variance inflation factor (VIF) of ABCA8, CXCL12, and CAT.

RNAs	C-index	se.std(c-d)	VIF
ABCA8	0.71265378	0.07185655	1.047288
CXCL12	0.76449912	0.06377504	1.040183
CAT	0.79964851	0.04708802	1.088380
ALL	0.87170475	0.03595308	

Table S4. LASSO and cox analysis of ceRNA with coef/se(coef) < 0.01 and P-value of proportional hazards assumption (PH) > 0.05.

RNAs	beta	Hazard_Ratio	coef/se(coef)	Chi-sq	p-value
ABCA8	-0.44	0.65	0.01	1.12	0.29
CAT	-0.68	0.51	< 0.01	2.01	0.16
CXCL12	-0.47	0.62	< 0.01	0.69	0.41

Table S5. Robust rank aggregation analysis of ABCA8, CXCL12, and CAT. LogFC in the four datasets and RRA score of the three RNAs.

RNAs	GSE9967	GSE3600	GSE2842	GSE12620	Score	Regulatio
	1	4	5	9		n
ABCA8	-1.46	-2.11	-2.12	1.20	0.03085684	down
	-1.40	-2.11	-2.12	1.20	5	
CAT	-1.42	-3.02	-3.01	-0.08	0.02025670	down
	-1.42	-3.02	-3.01	-0.06	5	
CXCL1	-1.46	-4.67	1 67	-4.89	0.00313309	down
2	-1.40	-4.07	-4.67	-4.09	4	