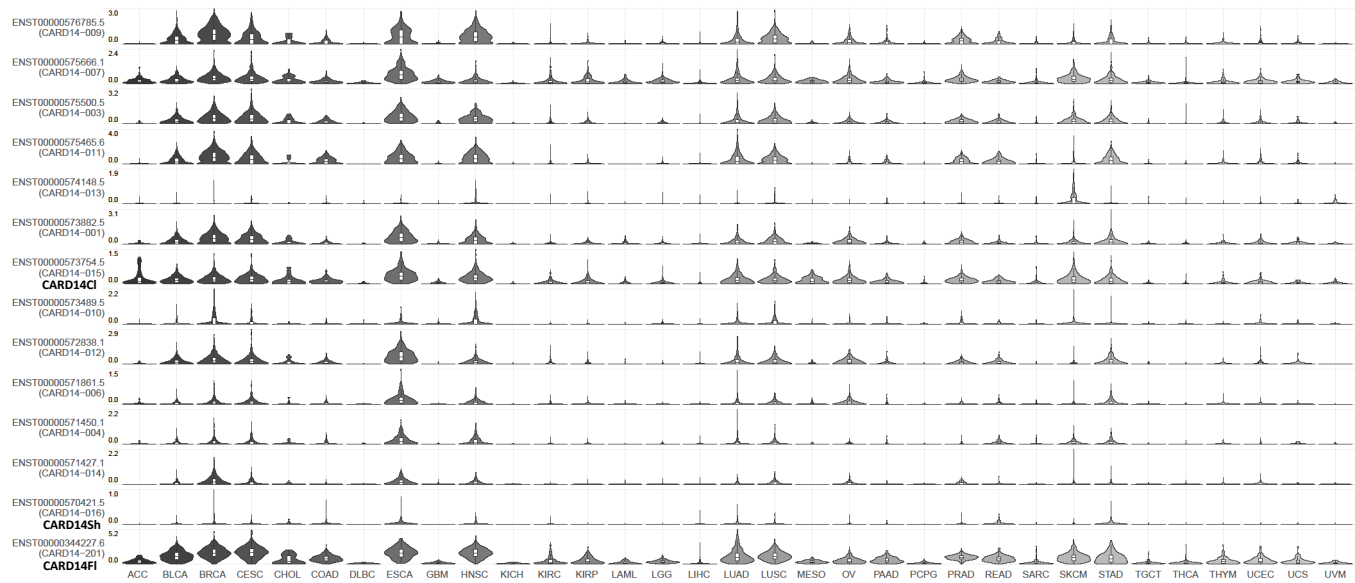


A

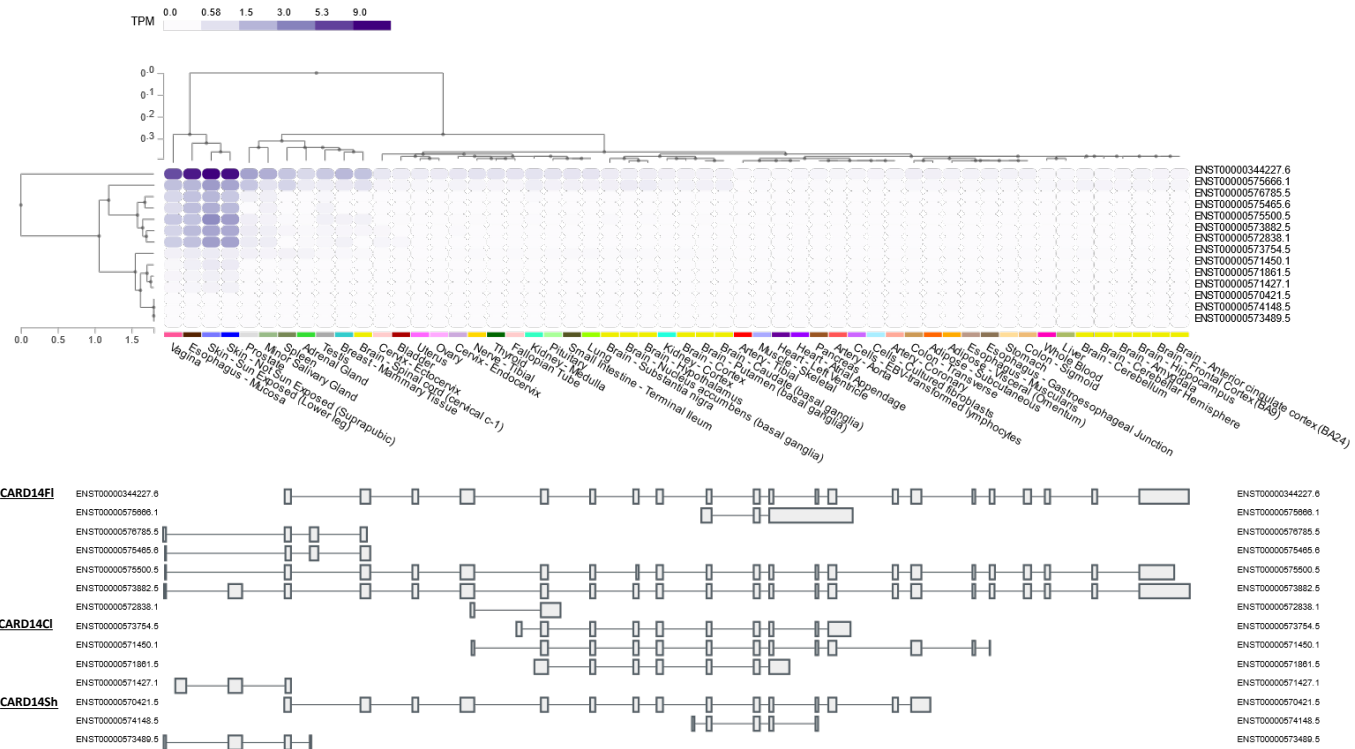


Supplementary Figure 2

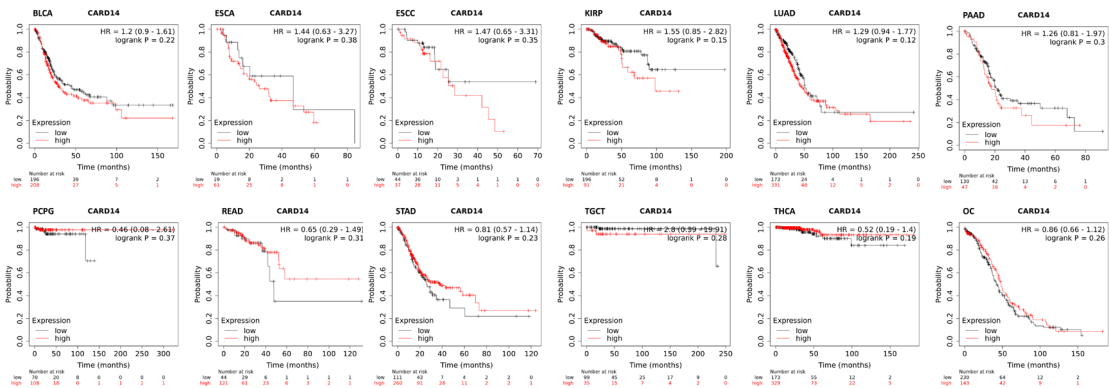
A



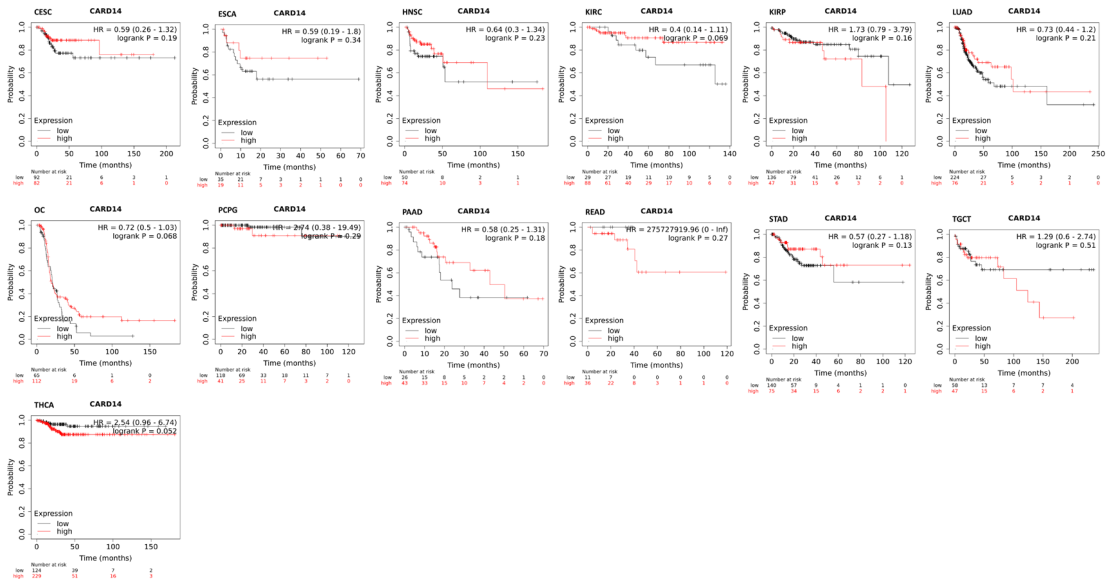
B



A. Overall Survival

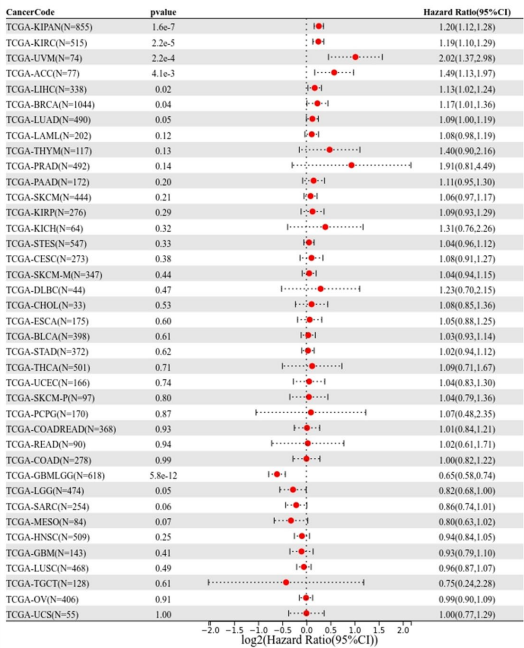


B. Relapse Free Survival

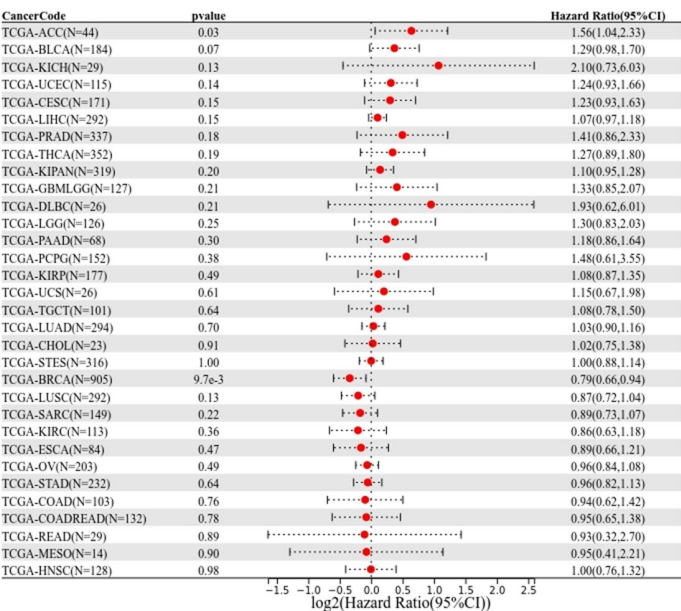


Supplementary Figure 4

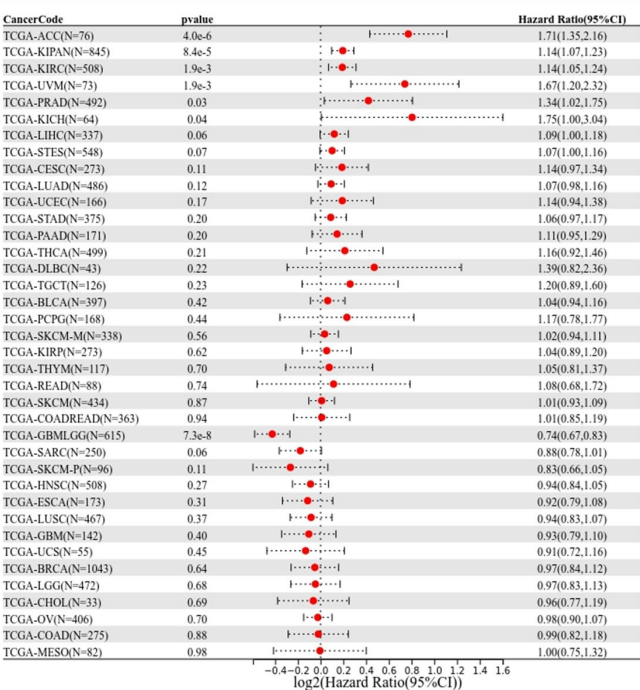
OS



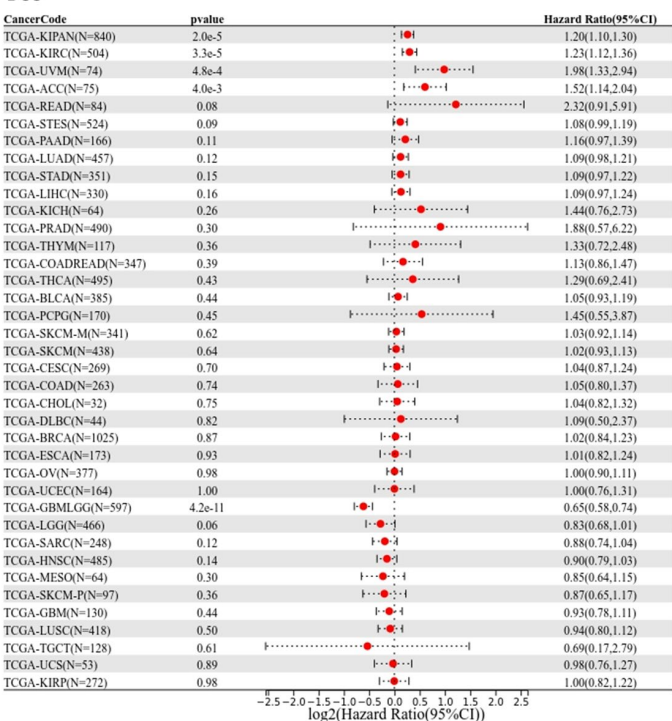
DFI



PFI



DSS



Supplementary Table 1

String Pathways

#Color	Term ID	Term description	Observed gene count	Strength	FDR	Proteins in network
cyan	GO:0032449	CBM complex	5	2.59	4.79e-08	CARD9,CARD11,CARD10,MALT1,BCL10
orange	GO:0002096	Polkadots	2	2.59	0.0400	MALT1,BCL10
yellow	GO:0050700	CARD domain binding	7	2.23	5.84e-10	NOD1,NOD2,CARD9,CARD11,CARD10,CARD14,BCL10
magenta	GO:0043621	Protein self-association	6	1.5	0.00013	SLC9A3R1,CARD9,CARD11,TNFAIP3,MALT1,BCL10 NFKB1,PRKCQ,CARD11,CARD10,IKBKB,TRAF6, TNFAIP3,IKBKG,PRKCB,MALT1,CARD14,BCL10
maroon	hsa04064	NF-kappa B signaling pathway	12	1.66	2.99e-14	NFKB1,CARD11,IKBKB,IKBKG,PRKCB,MALT1,BCL10
grey	hsa04662	B cell receptor signaling pathway	7	1.54	1.77e-07	NFKB1,TRAF3IP2,IKBKB,TRAF6,TNFAIP3,IKBKG,IL17A
black	hsa04657	IL-17 signaling pathway	7	1.47	3.88e-07	NFKB1,PRKCQ,RUNX1,IL23R,IKBKB,IKBKG,IL17A
lightgreen	hsa04659	Th17 cell differentiation	7	1.44	5.61e-07	NFKB1,GART,IKBKB,IKBKG
purple	hsa01523	Antifolate resistance	4	1.7	5.94e-05	TRAF3IP2,TRAF6,IL17A
limegreen	GO:0097400	interleukin-17-mediated signaling pathway	3	2.11	0.00055	APRT,GART
red	GO:0046084	Adenine biosynthetic process	2	2.59	0.0039	
		Antigen processing and presentation of endogenous peptide antigen via MHC class I via ER pathway, TAP-independent	2	2.41	0.0060	HLA-C,HLA-B
blue	GO:0002486		2	2.04	0.0175	IL23R,MALT1
darkgreen	GO:2000321	Positive regulation of T-helper 17 cell differentiation	2			
khaki	HSA-5603029	IkBA variant leads to EDA-ID IKBKG deficiency causes anhidrotic ectodermal dysplasia with immunodeficiency (EDA-ID) (via TLR)	3	2.22	9.75e-05	NFKB1,IKBKB,IKBKG
pink	HSA-5603027		2	2.41	0.0024	IKBKB,IKBKG
lightblue	HSA-5602636	IKBKB deficiency causes SCID	2	2.41	0.0024	IKBKB,IKBKG

Supplementary Table 2

Gepia2 top 96 most similar genes to CARD14 expression in all cancers

Gene Symbol	Gene ID	PCC	Gene Symbol	Gene ID	PCC
EIF4A3	ENSG00000141543.9	0.45	IRF6	ENSG00000117595.10	0.35
GRHL1	ENSG00000134317.17	0.44	DSP	ENSG00000096696.13	0.35
ZBTB7B	ENSG00000160685.13	0.43	KDF1	ENSG00000175707.8	0.35
ESRP1	ENSG00000104413.15	0.42	TNK1	ENSG00000174292.12	0.34
TMEM241	ENSG00000134490.13	0.42	ADIPOR1	ENSG00000159346.12	0.34
BNIP1	ENSG00000163141.18	0.42	PIAS3	ENSG00000131788.15	0.34
FAM110A	ENSG00000125898.12	0.41	RARG	ENSG00000172819.16	0.34
GRHL2	ENSG00000083307.10	0.41	F11R	ENSG00000158769.17	0.34
PROM2	ENSG00000155066.15	0.41	DDI2	ENSG00000197312.11	0.34
ESRP2	ENSG00000103067.11	0.40	GALNT6	ENSG00000139629.15	0.34
MARK2	ENSG00000072518.20	0.39	PRSS22	ENSG00000005001.9	0.34
EPN3	ENSG00000049283.17	0.39	ISG20L2	ENSG00000143319.16	0.34
CASZ1	ENSG00000130940.14	0.39	ERI2	ENSG00000196678.13	0.34
FAM83H	ENSG00000180921.6	0.39	GSPT1	ENSG00000103342.12	0.34
PVRL4	ENSG00000143217.8	0.39	TMEM254	ENSG00000133678.13	0.34
RAB25	ENSG00000132698.13	0.39	C6orf132	ENSG00000188112.8	0.34
KCNK6	ENSG00000099337.4	0.39	MREG	ENSG00000118242.15	0.34
CDC42SE1	ENSG00000197622.12	0.39	COPB2	ENSG00000184432.9	0.34
TMPRSS13	ENSG00000137747.14	0.38	ENTPD7	ENSG00000198018.6	0.34
RHOV	ENSG00000104140.6	0.38	IARS2	ENSG00000067704.9	0.34
CELSR1	ENSG00000075275.16	0.38	ARHGAP32	ENSG00000134909.18	0.34
GPR157	ENSG00000180758.11	0.38	NPLOC4	ENSG00000182446.13	0.34
ACBD3	ENSG00000182827.8	0.38	LRRC1	ENSG00000137269.14	0.34
TUFT1	ENSG00000143367.15	0.38	CSNK1A1	ENSG00000113712.16	0.34
TRIM11	ENSG00000154370.13	0.37	SCYL3	ENSG00000000457.13	0.34
IPPK	ENSG00000127080.9	0.37	SIRT7	ENSG00000187531.13	0.34
HN1L	ENSG00000206053.12	0.37	RNF39	ENSG00000204618.8	0.34
CTNND1	ENSG00000198561.12	0.37	AAGAB	ENSG00000103591.12	0.34
OVOL2	ENSG00000125850.10	0.37	STK3	ENSG00000104375.15	0.33
TC2N	ENSG00000165929.12	0.37	SBNO2	ENSG00000064932.15	0.33
PTPRF	ENSG00000142949.16	0.36	FAM104A	ENSG00000133193.12	0.33
PLEKHF2	ENSG00000175895.3	0.36	PSMD12	ENSG00000197170.9	0.33
ALDH3B2	ENSG00000132746.14	0.36	ZDHHC5	ENSG00000156599.10	0.33
PKP3	ENSG00000184363.9	0.36	TTC22	ENSG00000006555.10	0.33
KIAA1522	ENSG00000162522.10	0.36	ANKEF1	ENSG00000132623.15	0.33
TMEM184A	ENSG00000164855.15	0.36	UHMK1	ENSG00000152332.15	0.33
YWHAZ	ENSG00000164924.17	0.36	UBN1	ENSG00000118900.14	0.33
ENSA	ENSG00000143420.17	0.35	OTUB2	ENSG00000089723.9	0.33
EMP2	ENSG00000213853.9	0.35	MAPK13	ENSG00000156711.16	0.33
RAB10	ENSG00000084733.10	0.35	KNOP1	ENSG00000103550.13	0.33
SLC9A3R1	ENSG00000109062.9	0.35	LYPD3	ENSG00000124466.8	0.33
LRRC8E	ENSG00000171017.10	0.35	VPS37C	ENSG00000167987.10	0.33
IRX5	ENSG00000176842.14	0.35	SPRTN	ENSG00000010072.15	0.33
TMEM79	ENSG00000163472.18	0.35	S100A16	ENSG00000188643.10	0.33
HNRNPf	ENSG00000169813.16	0.35	ENAH	ENSG00000154380.16	0.33
ARF6	ENSG00000165527.6	0.35	LIMK2	ENSG00000182541.17	0.33
CCDC64B	ENSG00000162069.14	0.35	SLC39A11	ENSG00000133195.11	0.32

Pearson's correlation coefficients (PCCs)