The long non-coding RNA *EPB41L4A-AS2* inhibits tumor proliferation and is associated with favorable prognoses in breast cancer and other solid tumors

Supplementary Materials



Supplementary Figure S1: Flow chart of this study.



Supplementary Figure S2: EPB41L4A-AS2 expression in five different molecular subtype breast cancer tissues.



Supplementary Figure S3: EPB41L4A-AS2 expression in renal cancer with different stage.



Supplementary Figure S4: *EPB41L4A-AS2* expression in renal cancer with different grade.



Supplementary Figure S5: High *EPB41L4A-AS2* expression was associated with better OS than low expression in patients with ER positive breast cancer in cohort III (N = 377).



Supplementary Figure S6: High *EPB41L4A-AS2* expression was associated with better OS than low expression in patients with low tumor grade in cohort III (N = 135).



Supplementary Figure S7: High *EPB41L4A-AS2* expression was associated with better OS than low expression in patients with uninvolved lymph nodes in cohort III (N = 425).



Supplementary Figure S8: High *EPB41L4A-AS2* expression was associated with worse OS than low expression in breast cancer patients with a *TP53* mutation (N = 111).

Study code	No. patients	No. AF	p_value	HR	high value	low value
Study coue	no. patiento	NUAL	p-value		better	better
GSE1378	59	27	0.4809	0.88		
GSE2603	82	27	0.5647	0.89		
GSE1456	159	50	0.0745	0.78		-
GSE2034	286	107	0.1982	0.88	-	-
E_TABM_158	112	42	0.1562	0.82		-
GSE4922	249	89	0.1345	0.86	-	-
GSE7390	198	91	0.1764	0.87	-	-
GSE6532	393	139	0.5255	0.95		ŀ
GSE5327	58	11	0.5499	0.83		
E_UCON_1	135	65	0.6457	0.95	-	-
GSE7378	54	9	0.1916	0.56		
GSE9195	77	13	0.0186	0.61		
GSE11121	200	46	0.1690	0.83		_
GSE16391	55	55	0.6726	0.94	-	-
GSE12093	136	20	0.9732	1.01		-
GSE19615	115	14	0.5467	1.19		
GSE17907	39	17	0.7714	1.08		
GSE20711	85	36	0.2433	1.23	-	
GSE26971	258	58	0.6588	0.95	-	-
GSE25055	309	65	0.3936	0.90	-	_
GSE20685	296	73	0.1058	1.24	-	-
GSE21653	252	83	0.9758	1.00	-	-
GSE33926	51	12	0.2312	1.38	_	
GSE45255	41	14	0.1123	1.70	-	
Pool	3699	1163	0.0175	0.93		
					· · · · · · · · · · · · · · · ·	
				C).2 1.	0 5.0

Supplementary Figure S9: Meta-analysis of *EPB41L4A-AS2* expression and prognosis of any event in breast cancer patients in cohort IV (N = 3,699).



Supplementary Figure S10: High *EPB41L4A-AS2* expression was associated with better OS than low expression in renal cancer patients in cohort II (N = 448).



Supplementary Figure S11: High *EPB41L4A-AS2* expression was associated with better OS than low expression in lung squamous cell cancer patients (N = 524).



Supplementary Figure S12: High *EPB41L4A-AS2* expression was associated with better OS than low expression in lung adenocarcinoma patients (N = 720).



Supplementary Figure S13: High *EPB41L4A-AS2* expression was associated with better OS than low expression in female lung cancer patients (N = 715).



Supplementary Figure S14: High *EPB41L4A-AS2* expression was associated with better OS than low expression in male lung cancer patients (N = 1,100).



Supplementary Figure S15: High *EPB41L4A-AS2* expression was associated with better OS than low expression in lung cancer patients who never smoked (N = 205).



Supplementary Figure S16: High *EPB41L4A-AS2* expression was associated with better OS than low expression in lung cancer patients who smoked (N = 820). ****p < 0.0001; ***p < 0.001; **p < 0.01; *p < 0.05.

11	v		
Cohort III			
GSE12276			
GSE11121			
GSE12093			
GSE1456			
GSE16391			
GSE16446			
GSE17907			
GSE17705			
GSE19615			
GSE20194			
GSE20271			
GSE2034			
GSE20685			
GSE20711			
GSE21653			
GSE25055			
GSE26971			
GSE26990			
GSE31448			
GSE31519			
GSE3494			
GSE5327			
GSE6532			
GSE7390			
GSE9195			
E_MTAB_36	5		

Supplementary Table S1: GEO datasets list in cohort III

Cohort IV
GSE1378
GSE11121
GSE12093
GSE1456
GSE16391
GSE17907
GSE19615
GSE2034
GSE20685
GSE20711
GSE21653
G8E25055
GSE26971
GSE2603
GSE33926
GSE45255
GSE4922
GSE5327
GSE6532
GSE7390
GSE7378
GSE9195
E_TABM_158
E_UCON_1