

Table 1 Association between clinicopathological characteristics and CUL4A expression levels

Variables	n	CUL4A expression		P
		Low (n = 54, %)	High (n = 66, %)	
Sex				>0.999 ^b
Male	97	44 (81.5)	53 (80.3)	
Female	23	10 (18.5)	13 (19.7)	
Age (years) ^a		61.3 ± 8.0	63.1 ± 7.4	0.213 ^c
Histology				
Squamous cell carcinoma				0.011 ^b
Well differentiated	48	27 (50)	21 (31.8)	
Moderately differentiated	60	19 (35.2)	41 (62.1)	
Poorly differentiated	12	8 (14.8)	4 (6.1)	
Tumor size (mm)				0.121 ^b
<50	79	40 (74)	39 (59.1)	
≥50	41	14 (26)	27 (40.9)	
Tumor depth				<0.001 ^b
T1, T2	61	37 (68.6)	24 (36.4)	
T3, T4	59	17 (21.4)	42 (63.6)	
Lymph node metastasis				0.320 ^b
Absent	48	25 (46.3)	23 (34.8)	
Present	72	29 (53.7)	43 (65.2)	
Distant metastasis				>0.999 ^d
Absent	111	50 (92.6)	61 (92.4)	
Present	9	4 (7.4)	5 (7.6)	
Lymphatic invasion				>0.999 ^b
Negative	35	16 (29.6)	19 (28.8)	
Positive	85	38 (70.4)	47 (71.2)	
Venous invasion				0.014 ^b
Negative	74	40 (74.1)	34 (51.5)	
Positive	46	14 (25.9)	32 (48.5)	

^a The values are express as the mean ± standard division; ^b Indicates the value obtained by the chi-square test; ^c Indicates the value obtained by an unpaired *t*-test; ^d Indicates data obtained by Fisher's exact test.
CUL4A, Cullin4A

Table 2 Results of multivariate analysis of prognostic factors for the disease specific-survival of esophageal cancer patients

Variables		HR	95% CI	<i>P</i>
Tumor size (mm)	≥50/ <50	1.551	0.850-2.859	0.151
Tumor depth	T3, T4/ T1, T2	4.127	1.860-9.157	<0.001
Lymph node metastasis	Present/ absent	3.162	1.309-7.638	0.011
Distant metastasis	Present/ absent	2.284	1.063-4.907	0.034
Lymphatic invasion	Present/ absent	1.175	0.558-2.474	0.672
Venous invasion	Present/ absent	0.564	0.293-1.085	0.086
CUL4A expression	High/ Low	1.994	1.017-3.909	0.045

HR, hazard ratio; CI, confidential interval; CUL4A, Cullin4A

Table 3 Relationship between CUL4A expression and pattern of esophageal cancer recurrence

Pattern of recurrence	CUL4A expression		<i>P</i>
	Low (n = 54, %)	High (n = 66, %)	
All recurrence	19 (35.2)	43 (65.2)	0.002 ^a
Lymph node	14 (25.9)	25 (37.9)	0.177 ^a
Hematogenous	12 (22.2)	21 (31.8)	0.305 ^a
Pleura	0 (0)	7 (10.6)	0.013 ^b

Some patients had a first recurrence at more than one site. ^a Indicates the value obtained by the chi-square test; ^b Indicates data obtained by Fisher's exact test. CUL4A Cullin4A