

Table SI. Clinicopathological characteristics of 43 patients with esophageal squamous cell carcinoma.

Characteristic	KIF4A expression		P-value
	Low (n=20)	High (n=23)	
Age, years			0.636
<65	10	12	
≥65	10	11	
Sex			0.5151
Male	12	17	
Female	8	6	
pTNM			0.0149 ^a
I-II	13	6	
III-IV	7	17	
Alcohol consumption			0.5467
No	9	13	
Yes	11	10	
Lymph node metastasis			0.0143 ^a
Yes	8	18	
No	12	5	

^aP<0.05. Statistical analysis was performed using two-tailed Fisher's exact test to compare the differences in clinicopathological characteristics between the low and high KIF4A expression groups. KIF4A, kinesin family member 4A; TNM, tumor-node-metastasis.

Table SII. Reverse transcription-quantitative PCR primer sequences.

Primer	NCBI Gene ID ^a	Sequence (5'-3')	Amplicon length, bp	Annealing temperature, °C
KIF4A	24137	F: GTCTGGCTTGGGAGATGCTT R: GGCTAAGGCCCCACATCCAAC	172	60
TCF7	6932	F: TGTCCCCCAACTCTCTCTCTAC R: CTGTGAAGTTGCTTCTGGCTG	165	60
β-catenin	1499	F: GCTGGGACCTTGCATAACCT R: CCAAGCATTTTCACCAGGGC	148	60
AXIN2	8313	F: GGTGCCCTACCATGACACA R: ATCCCATCCAACACAACCCC	186	60
GAPDH	2597	F: TCCAAAATCAAGTGGGGCGA R: AAATGAGCCCCAGCCTTCTC	138	60
Cyclin D1	595	F: CAATGACCCCGCACGATTTC R: CATGGAGGGCGGATTGGAA	122	60
c-Myc	4609	F: GTCAAGAGGCGAACACACAAC R: TTGGACGGACAGGATGTATGC	154	60
MMP7	4316	F: TGTATGGGGAACTGCTGACA R: GCGTTCATCCTCATCGAAGT	151	60

^a<https://www.ncbi.nlm.nih.gov/gene/>. KIF4A, kinesin family member 4A; TCF7, T-cell factor 7.

Table SIII. Components of complete culture medium for esophageal squamous cell carcinoma organoids.

Medium component	Supplier	Catalogue number	Final concentration
R-Spondin 1	PeproTech, Inc.; Thermo Fisher Scientific, Inc.	120-38	250 ng/ml
FGF 7	PeproTech, Inc.; Thermo Fisher Scientific, Inc.	100-19	25 ng/ml
FGF 10	PeproTech, Inc.; Thermo Fisher Scientific, Inc.	100-26	20 ng/ml
Noggin	PeproTech, Inc.; Thermo Fisher Scientific, Inc.	120-10C	100 ng/ml
A83-01	Tocris	2939	500 nM
Y-27632	Selleck Chemicals	S1049	5 μ M
SB202190	Selleck Chemicals	S1077	500 nM
B27 supplement	Gibco; Thermo Fisher Scientific, Inc.	17504-44	1X
N-Acetylcysteine	MilliporeSigma	A9165	1.25 mM
Nicotinamide	MilliporeSigma	N0636	5 mM
GlutaMax 100X	Gibco; Thermo Fisher Scientific, Inc.	35050-061	1X
HEPES	MilliporeSigma	H4034	10 mM
Primocin	InvivoGen	Ant-pm-1	50 μ g/ml
Penicillin/streptomycin	MilliporeSigma	V900929	100 U/ml/100 μ g/ml
Advanced DMEM/F12	Gibco; Thermo Fisher Scientific, Inc.	12634010	1X

All additives were supplemented into Advanced DMEM/F12 basal medium to prepare the complete organoid culture medium.