

Figure S1. (A) Representative low expression of PKM2 in IHC micrographs of oesophageal squamous cell carcinoma (ESCC). Magnification, x100; scale bar, 20 μ m. (B) Representative low expression of PKM2 IHC micrographs of oesophageal squamous cell carcinoma (ESCC). The magnification is 400x; scale bar represents 5 μ m. (C) Representative low expression of pSTAT3^{Tyr705} in IHC micrographs of ESCC. Magnification, x100; scale bar, 20 μ m. (D) Representative low expression of pSTAT3^{Tyr705} in IHC micrographs of ESCC. Magnification, x400; scale bar, 5 μ m. (E) Proliferation of recipient Eca109 cells with PBS or Exo-P were performed using CCK-8 assay, ** $P < 0.01$ compared to control, *** $P < 0.001$ compared to control. (F) mRNA expression levels of PKM2 in ESCA and normal oesophageal tissues. Box plots show the mRNA expression of STAT3 in ESCA (red plot) and the corresponding normal tissues (grey plot). Axis units are Log₂ (TPM+1). (G) mRNA expression levels of STAT3 in ESCA and normal oesophageal tissues. Box plots show the mRNA expression of STAT3 in ESCA (red plot) and the corresponding normal tissues (grey plot). Axis units are Log₂ (TPM+1). (H) Correlation coefficient between STAT3 and PKM in 182 cases. ESCA, oesophageal carcinoma. ESCC, oesophageal squamous cell carcinoma; PKM2, pyruvate kinase isoenzyme type M2; IHC, immunohistochemical.

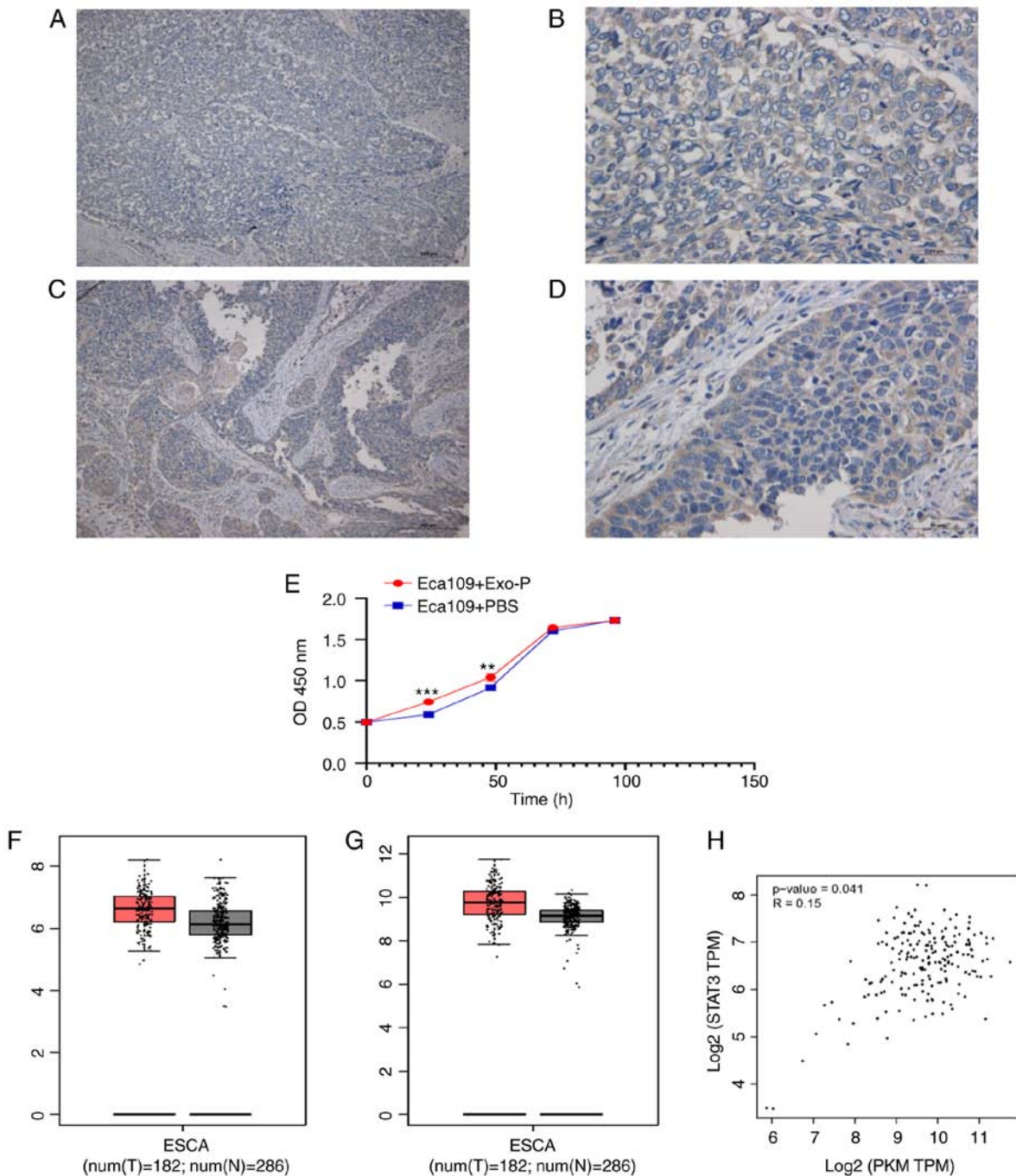


Table SI. Clinical features of patients with oesophageal squamous cell carcinoma.

Characteristic	Patients, N
Age	
≤60	20
>60	32
Sex	
Male	43
Female	9
T stage	
T1-T2	11
T3-T4	41
N stage	
N0	20
N1-N3	32
TNM stage	
II	27
III	25
Differentiation degree	
Well	3
Moderate	35
Poor	14
Gross classification	
Ulcerative type	30
Protrude type	4
Medullary type	16
Fungating type	2

Table SII. Clinical features of patients with EIN and HDs.

Patient	Sex	Age	Family history	Smoking index	Drinking history	Hypertension
EIN1	Male	63	No	800	Yes	No
EIN2	Male	57	Yes	1,200	No	Yes
EIN3	Male	65	No	200	No	No
EIN4	Male	54	No	600	Yes	Yes
EIN5	Male	61	No	No	No	Yes
EIN6	Male	56	Yes	No	No	No
HD1	Male	45	No	600	No	No
HD2	Female	56	No	No	No	No
HD3	Male	67	No	1,200	No	Yes
HD4	Male	51	Yes	600	No	Yes
HD5	Male	54	No	300	No	No
HD6	Male	67	No	No	No	No
HD7	Female	49	Yes	No	No	No
HD8	Male	62	No	300	No	No
HD9	Female	60	No	No	No	Yes
HD10	Male	61	No	No	No	No
HD11	Male	64	No	No	Yes	No
HD12	Male	65	Yes	No	No	Yes
HD13	Male	70	No	800	Yes	No
HD14	Female	57	No	No	No	Yes
HD15	Male	67	Yes	600	No	No
HD16	Male	56	No	300	No	Yes
HD17	Female	65	No	No	No	No
HD18	Male	62	No	No	No	No

EIN, esophageal intraepithelial neoplasia; HD, healthy donor.