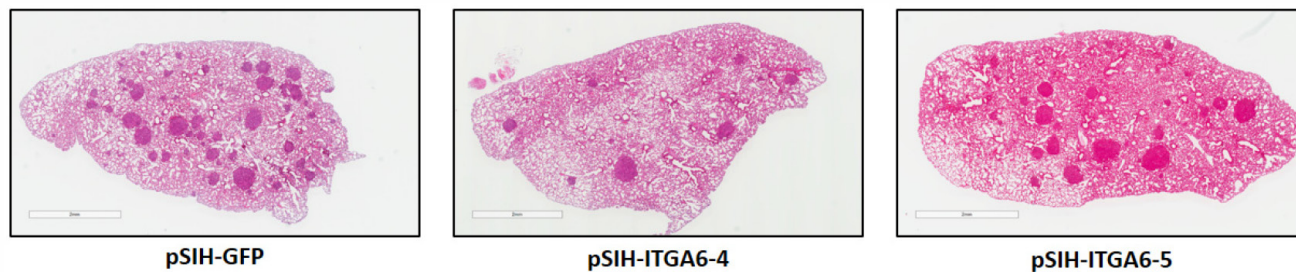
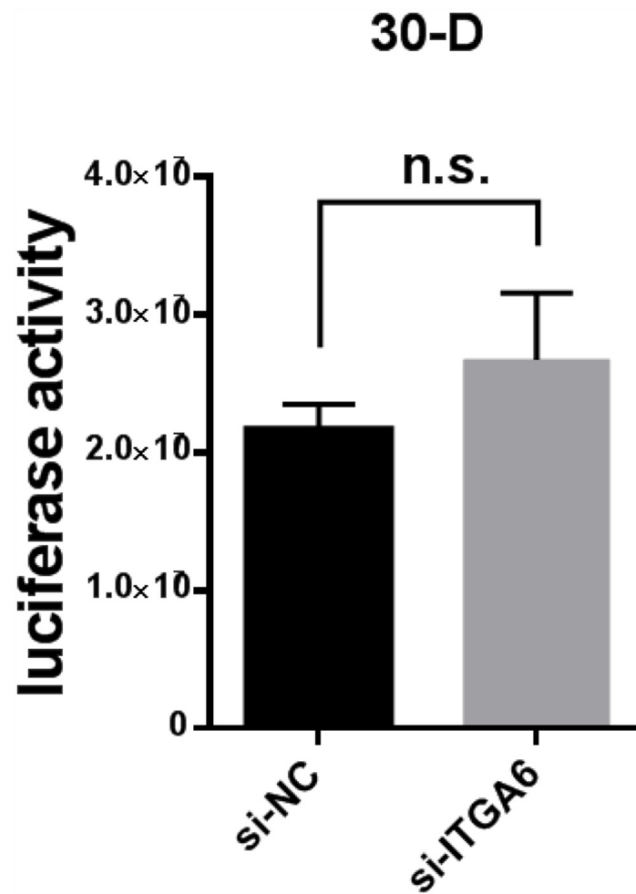


## Integrin $\alpha 6$ promotes esophageal cancer metastasis and is targeted by miR-92b

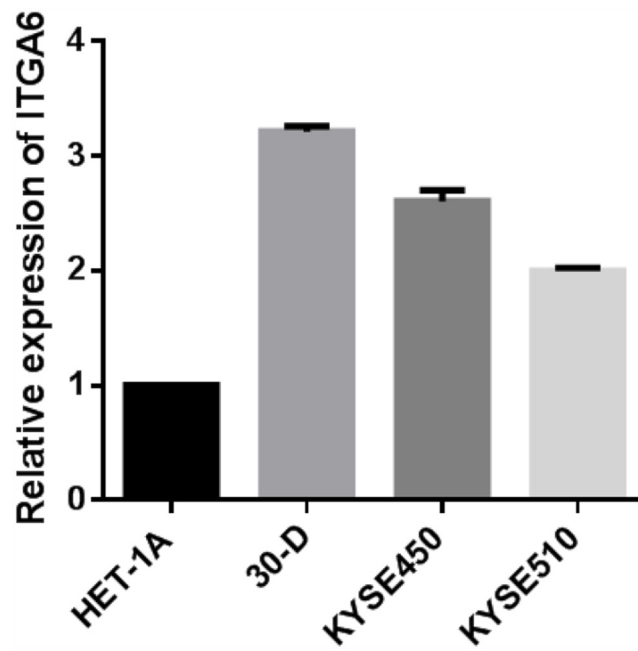
### SUPPLEMENTARY FIGURES AND TABLES



**Supplementary Figure 1: H&E stain of the lungs from the control and the integrin  $\alpha 6$  knockdown group.** Fewer metastatic nodules could be observed in the lungs of the integrin  $\alpha 6$  silenced mice than these counterparts from the control mice. The bars in the images indicate 2 mm.



**Supplementary Figure 2: Reduced integrin  $\alpha 6$  does not affect the luciferase activity.** The specific siRNAs (100 nM in total) against integrin  $\alpha 6$  and the scramble oligos were delivered into 30-D cells, respectively. Around 20 hr later, the luciferase activity were detected using Luciferase Assay Kit (Promega, WI, USA).



**Supplementary Figure 3: Integrin  $\alpha 6$  expression is higher in ESCC cell lines than that in normal esophageal cell line.** The mRNA level of integrin  $\alpha 6$  was detected by RT-qPCR. The data was analyzed using  $2^{-\Delta\Delta Ct}$  method.

**Supplementary Table 1: Primary antibodies used in this investigation**

<b>Primary antibody</b>	<b>catalog</b>	<b>Vendor</b>	<b>Application</b>
ITGA6	3883-1	Epitomics	WB
ITGA6	NBP1-85747	NOVUS	IHC
ITGA6	561893	BD	FC
GAPDH	G8795	Sigma	WB
FAK Antibody Sample Kit	9330	Cell Signaling	WB
Phospho-Akt (Thr308)	2965	Cell Signaling	WB
Akt (pan)	4685	Cell Signaling	WB

Supplementary Table 2: List of primers and oligos used in this investigation

Application	Sequence
<b>Clone</b>	
ITGA6 3'UTR	F: TTGAGCTCAGAGTGACTACACACAGTACG R: TTGCTAGCTTATTAACAACACTCTCTCTGGTAC
<b>microRNA reverse transcription</b>	
miR-92b	CTCAACTGGTGTCTGGAGTCGGCAATTCAGTTGAGGGAGGCCG
<b>qPCR detection</b>	
miR-92b	F: ACACTCCAGCTGGGTATTGCACTCGTCCCG R: TGGTGTCTGGAGTCG
ITGA6	F: GCTGGTTATAATCCTTCAATATCAATTGT R: TTGGGCTCAGAACCTTGGTTT
GAPDH	F: TGCACCACCAACTGCTTAGC R: GGCATGGACTGTGGTCATGAG
U6	F: CTCGCTTCGGCAGCACA R: AACGCTTCACGAATTTGCGT
<b>Mutation</b>	
ITGA6 UTR mut	F: AATCACGTTATGAAGGTGATGTTGCCATCCTAC R: TAGTTTAAGACAGCACTTTCCGTTGAAACACAAC
<b>shRNA oligos</b>	
ITGA6 sh-4 target	GTTTCTGGATTCATACTGTAA
ITGA6 sh-5 target	ATCCCGGCCTGTGATTAATATT
GFP shRNA target	CGAGAAGCGCGATCACATG