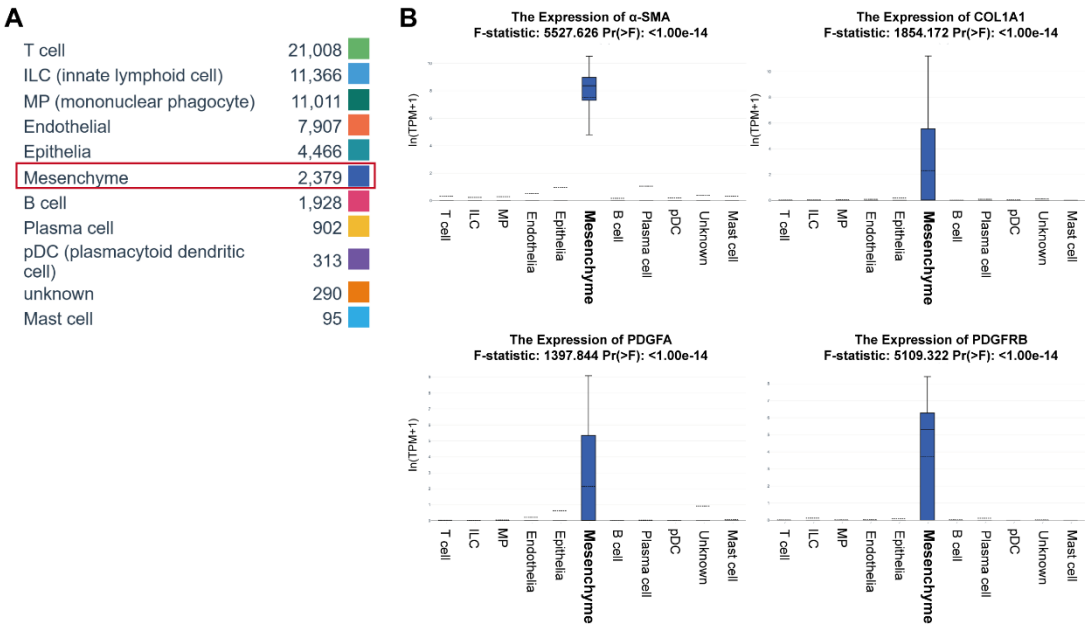


# Supplementary Materials

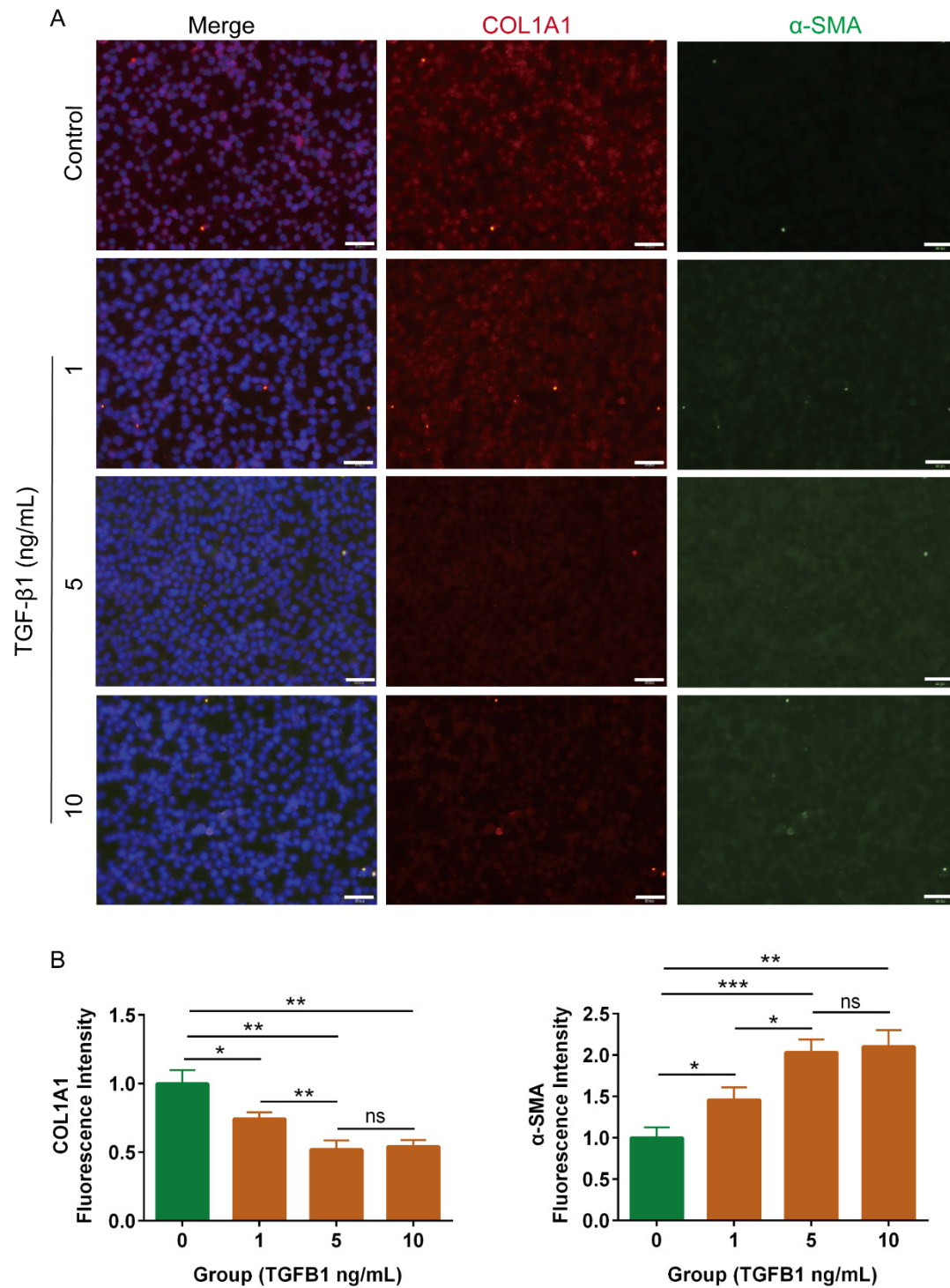
This file includes:

Figure S1-3, Tables S1

Fig.S1



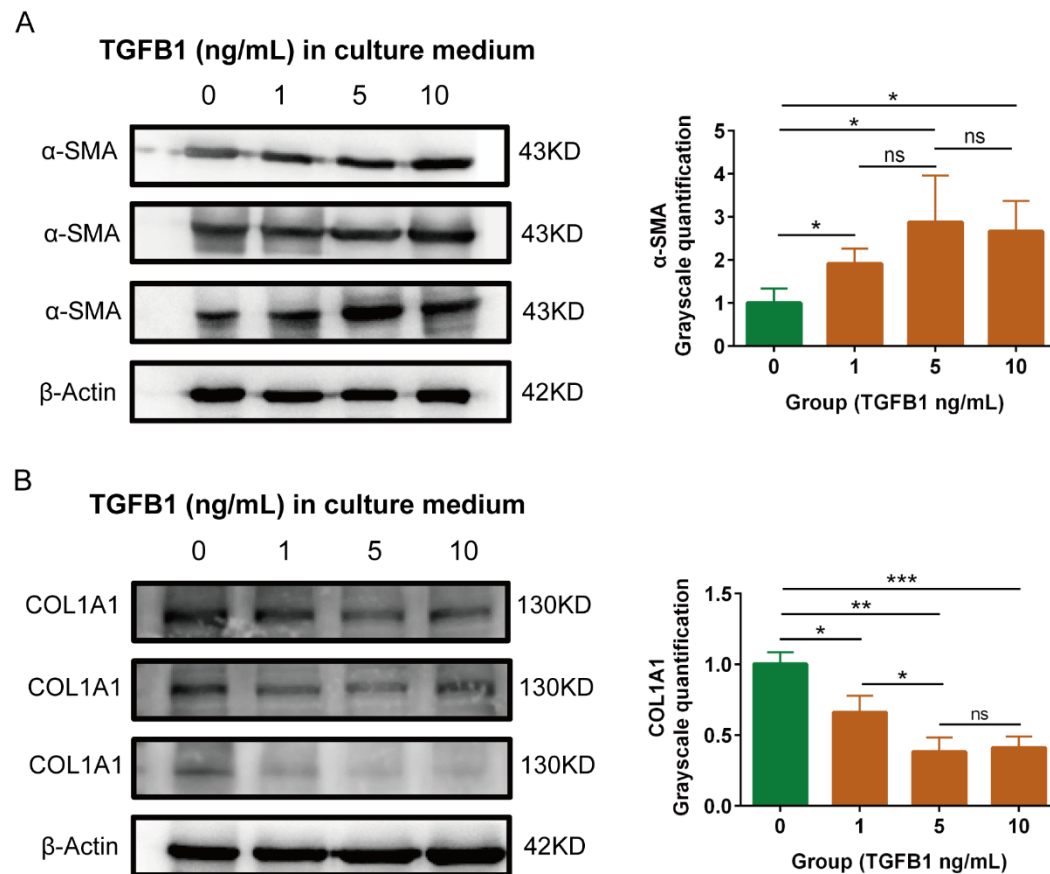
**Figure S1. Cell subpopulation with myofibroblast characteristics in the single cell assay database.** **A.** Classification of cell subpopulations in the Homo sapiens fibrosis liver single-cell database. **B.** The  $\alpha$ -SMA, COL1A1, PDGFA, and PDGFRB expression in cell subpopulations in a single cell database.



**Figure S2. The protein expression of  $\alpha$ -SMA in HSC-T6 derived myofibroblasts in the presence of gradient TGF- $\beta$ 1.** A. The expression of  $\alpha$ -SMA (green) and COL1A1 (red) in HSCs derived myofibroblasts was labeled with double staining; scale bar, 50  $\mu$ m. B. Fluorescence intensity quantification; Image J was used for

quantification. t-tests were used for statistical analysis. \*P<0.05; \*\*P<0.01;

\*\*\*P<0.001.



**Figure S3. Cell subpopulation with myofibroblast characteristics in the single cell**

**assay database. A.** The protein expression of  $\alpha$ -SMA in HSC-T6 derived myofibroblasts in the presence of gradient TGF- $\beta$ 1; The results of three independent experiments were presented; Image J was used for grayscale quantification. **B.** The protein expression of COL1A1 in HSC-T6 derived myofibroblasts in the presence of gradient TGF- $\beta$ 1; The results of three independent experiments were presented; Image J was used for grayscale quantification. t-tests were used for statistical analysis.

\*P<0.05; \*\*P<0.01; \*\*\*P<0.001.

**Table I. Primers for qPCR**

<b>Name</b>	<b>FOR</b>	<b>REV</b>
<b><math>\alpha</math>-SMA</b>	GCTATTCAGGCTGTGCTGTC	GGTAGTCGGTGAGATCTCGG
<b>COL1A1</b>	CATGCCGTGACCTCAAGATG	TCCATCGGTCATGCTCTCTC
<b><math>\beta</math>-actin</b>	TGTGTTGTCCCTGTATGCCT	AATGTCACGCACGATTTC