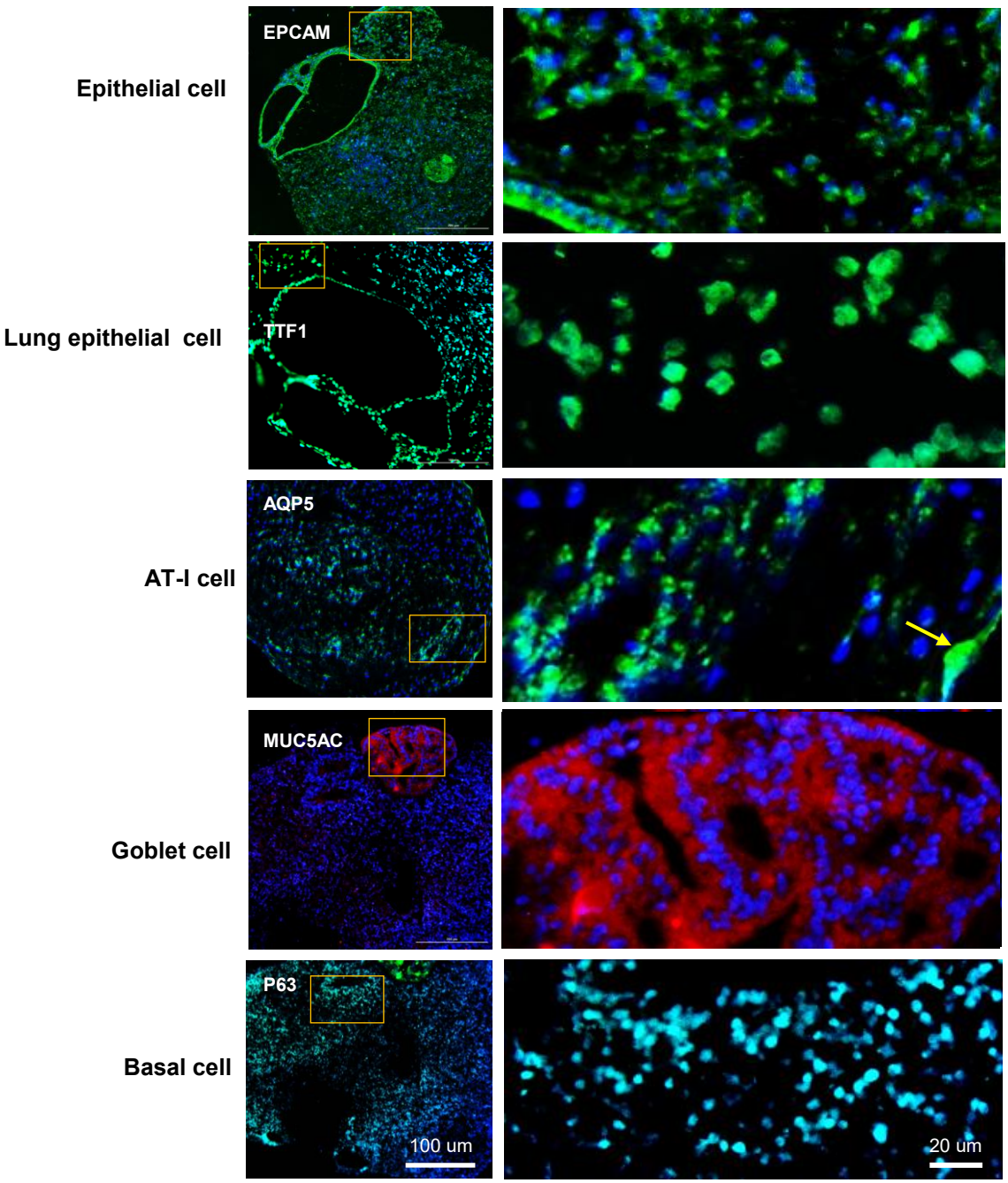
A


Epithelial cell
EPCAM
Lung epithelial cell
TTF1
AT-I cell
AQP5
Goblet cell
MUC5AC
Basal cell
P63
100 um
20 um

**B**

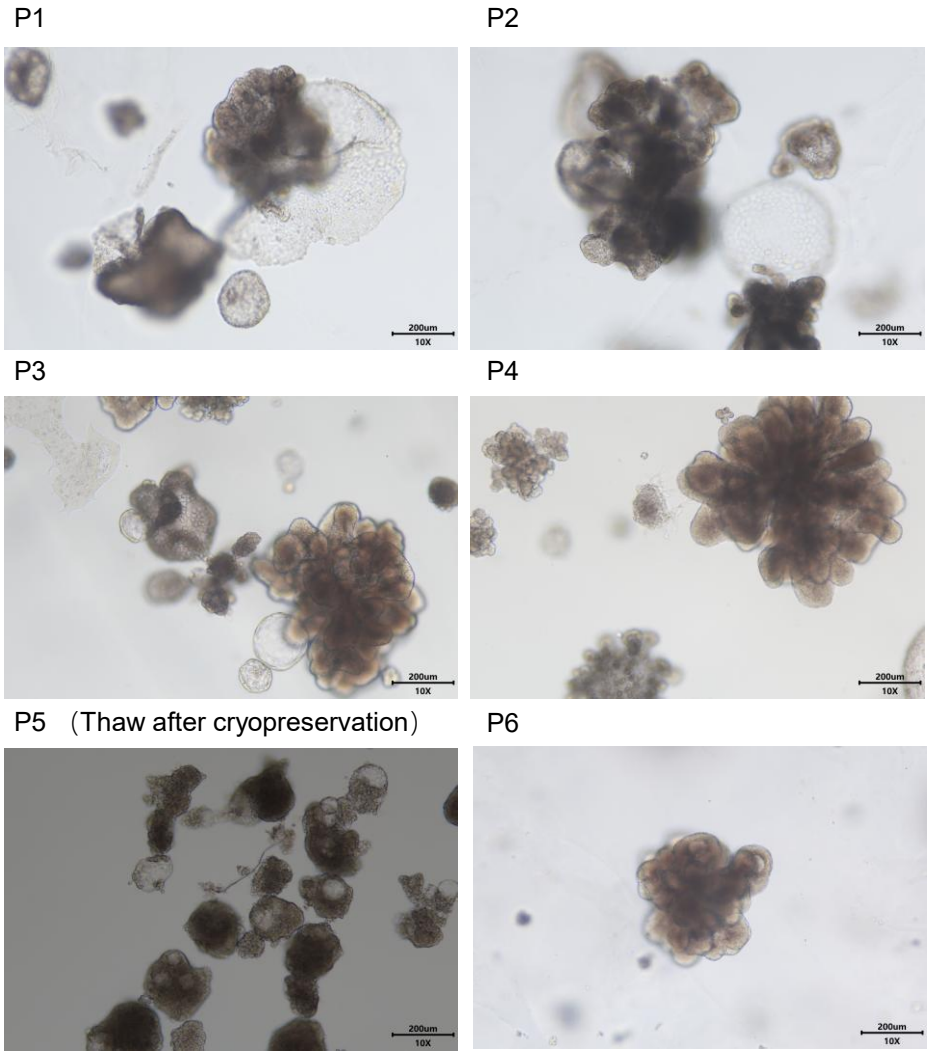



**Figure. S1 Identification the cell markers and passaging stability of the mouse lung organoids.**

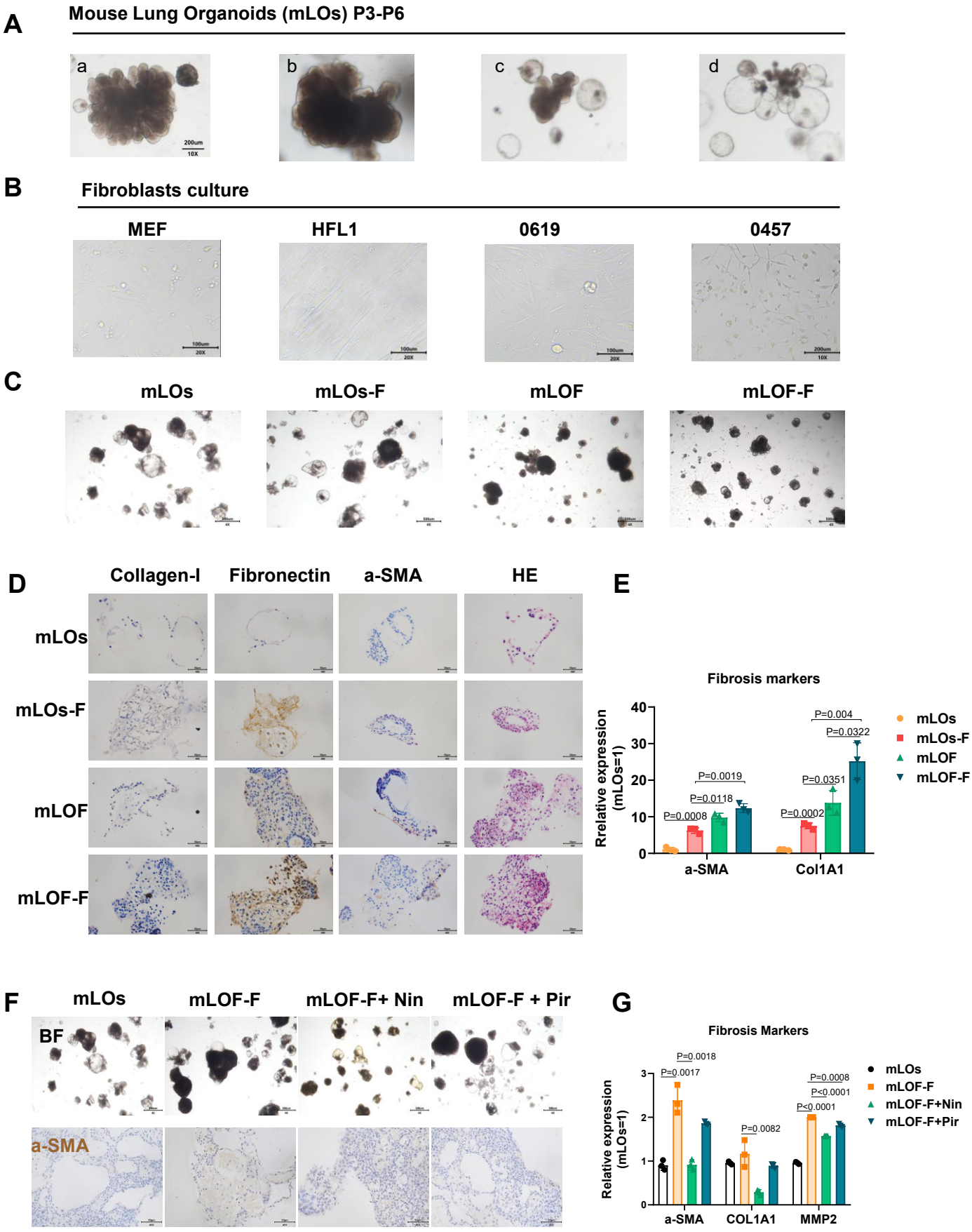



**Figure. S2 Establishment and Pharmacological Characterization of a Mouse Lung Organoid Model Displaying Fibrosis-Associated Features**

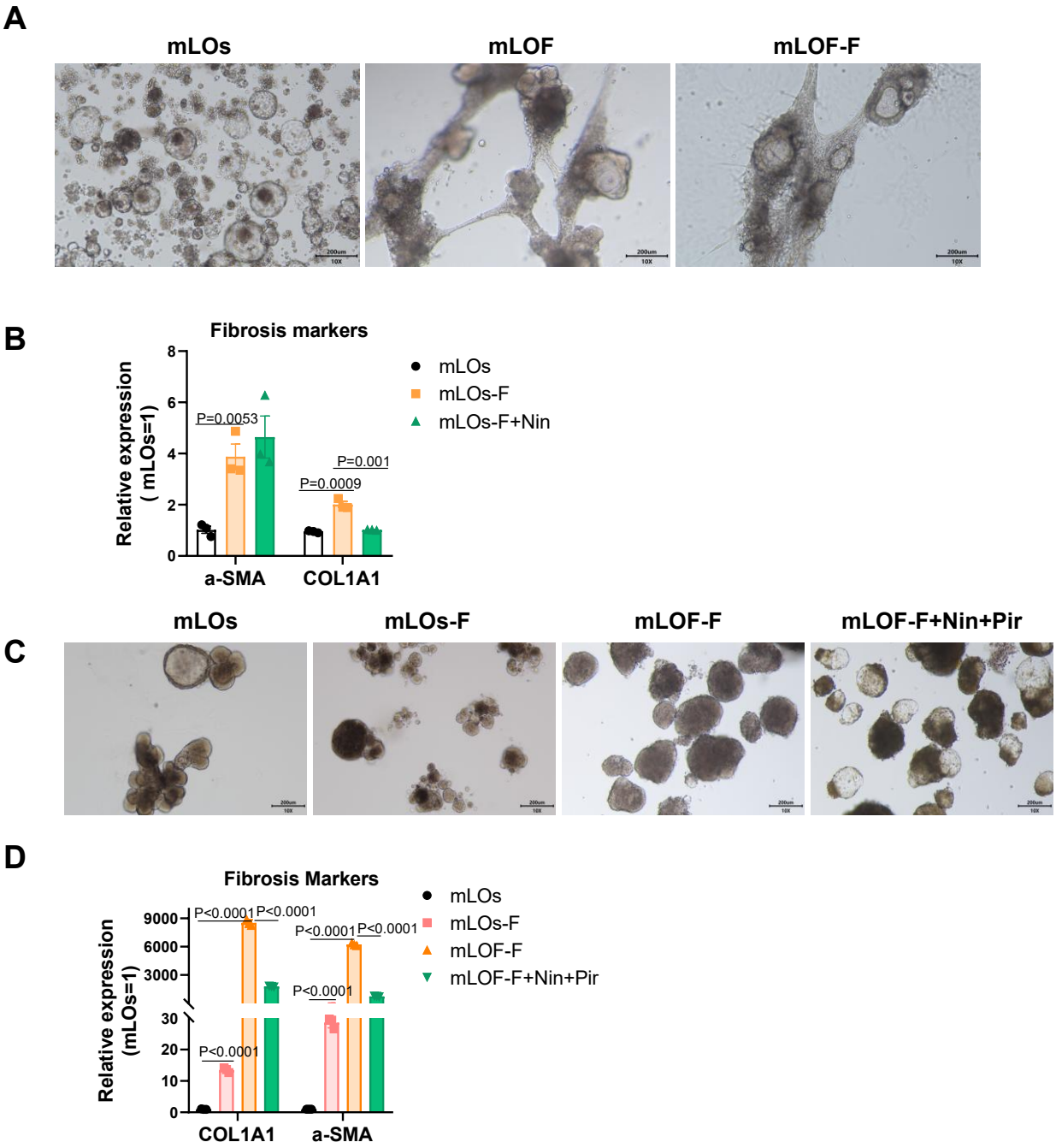



**Figure. S3 Mouse pulmonary fibrosis model establishment and validation**

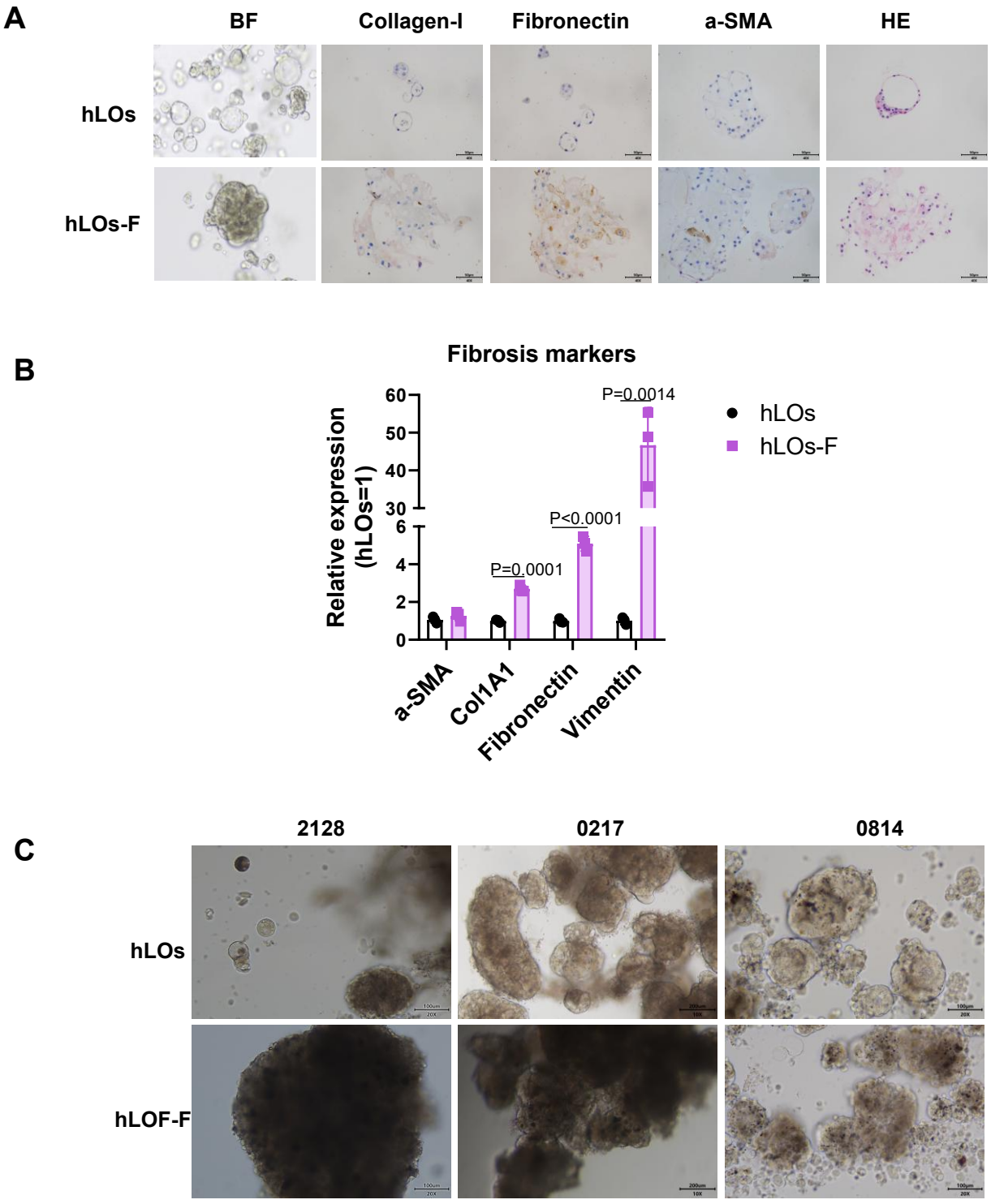
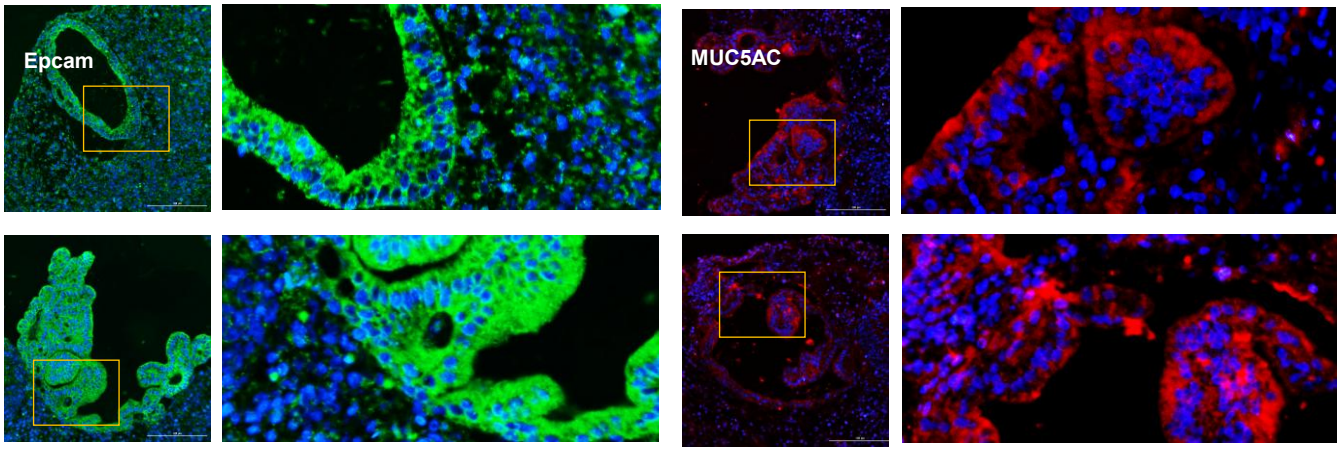
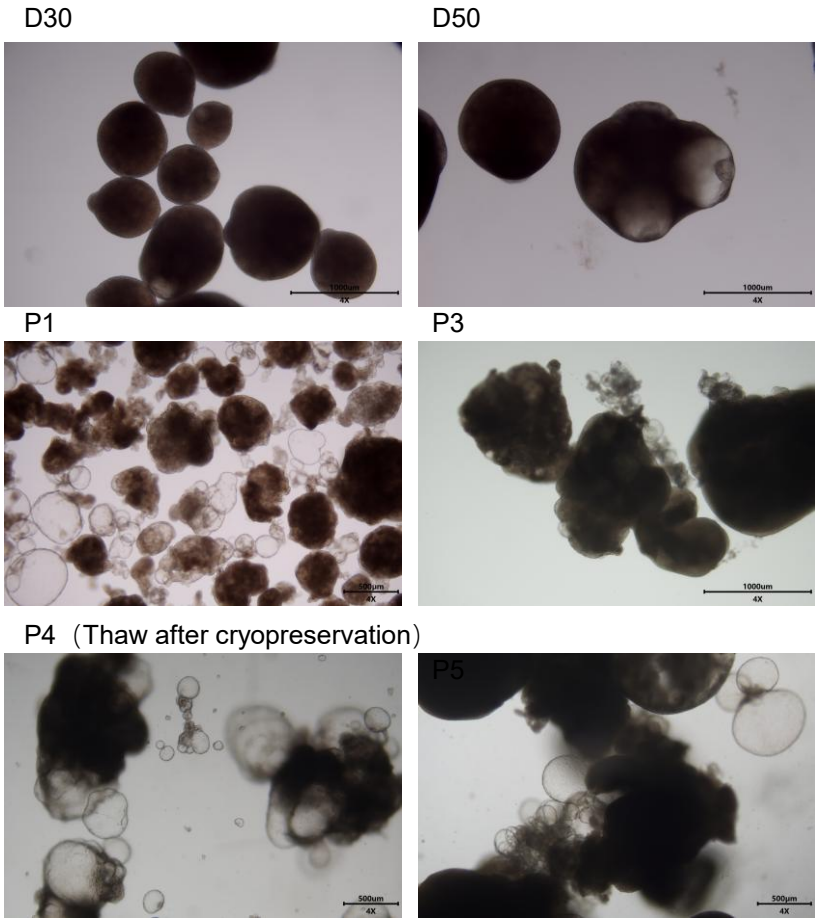



**Figure. S4 Human pulmonary fibrosis model establishment and validation**

**A**


Epcam
MUC5AC

**B**


D30
D50
P1
P3
P4（Thaw after cryopreservation）
P5

**hiLOs**

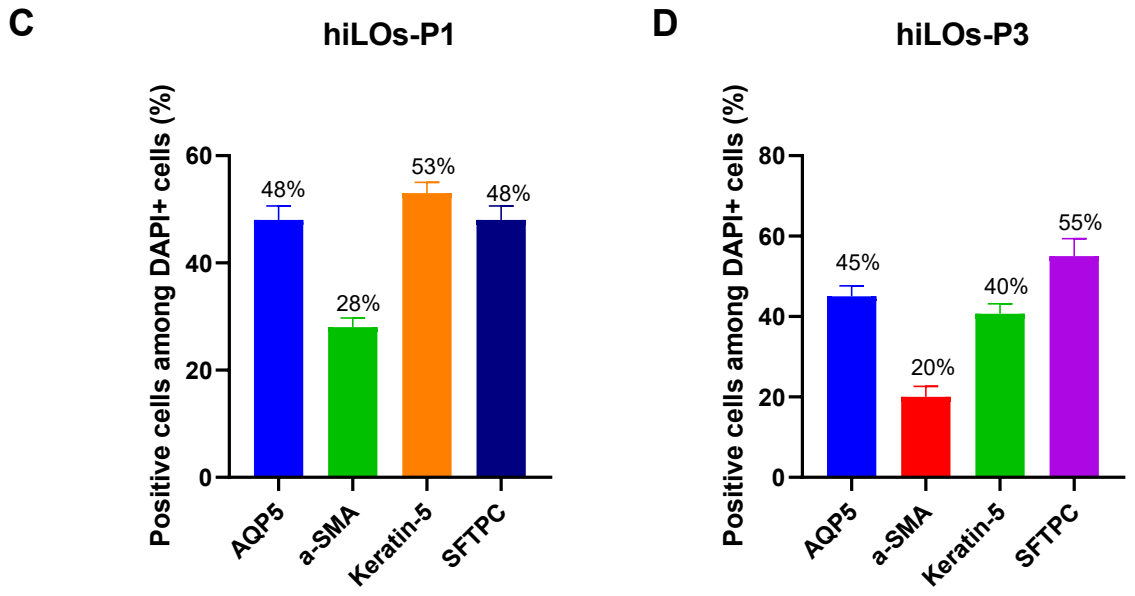



**Figure. S5 Morphological and passaging stability characterization of hiLOs.**

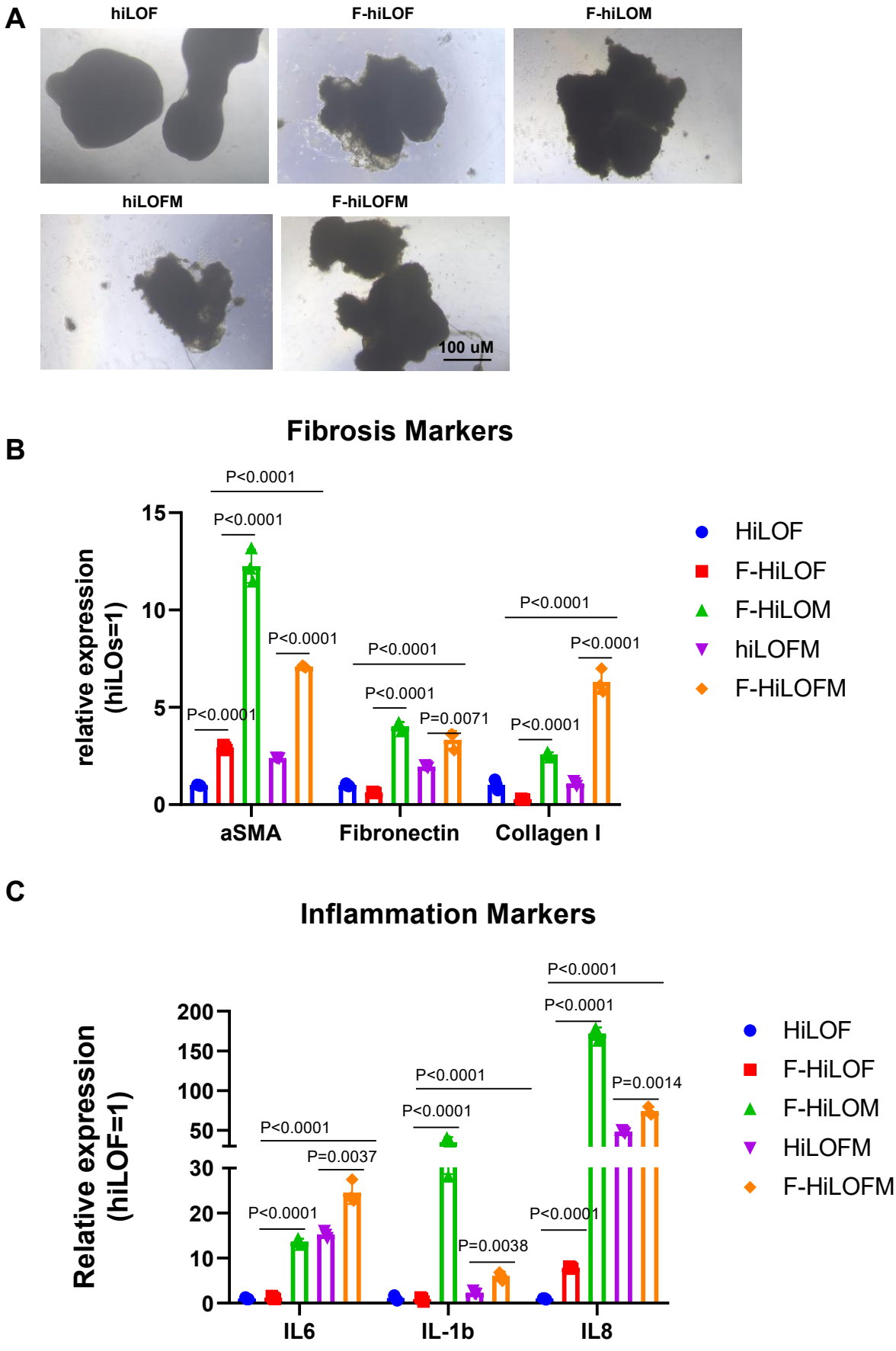



**Figure. S6 Passaged lung organoids remain suitable for pulmonary fibrosis modeling**