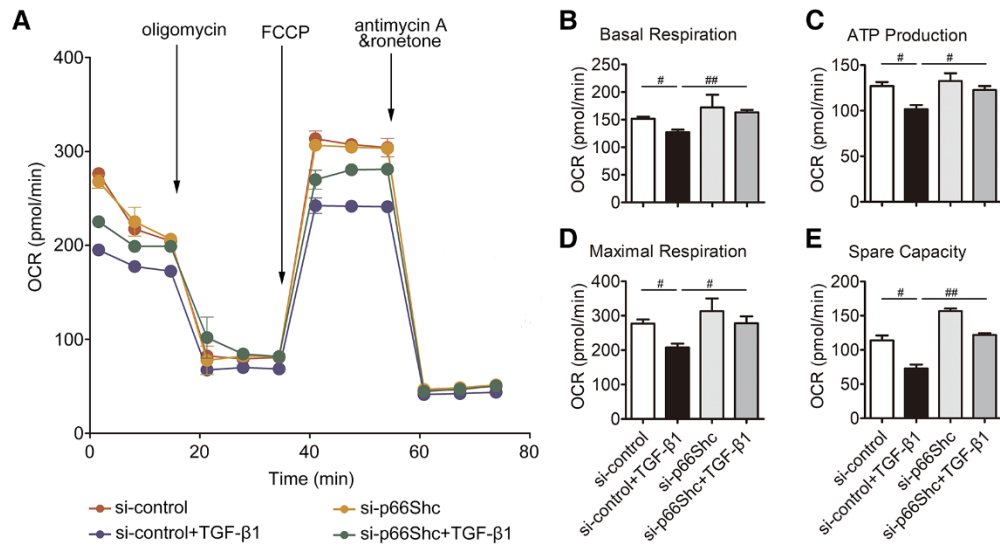


## Supplementary materials and methods

### OCR measurement

OCR was performed using Seahorse XF Cell Mito Stress Test (Agilent, Santa Clara, CA, US). Briefly, primary HSCs were sequentially treated with 1  $\mu$ M oligomycin; 1  $\mu$ M phenylhydrazone (FCCP); and 0.5  $\mu$ M mixture including rotenone and antimycin A according to the instruction. Seahorse XFe Wave Software (Agilent) was applied to analyze the data.

### Supplementary Figure



### Figure S1. p66Shc knockdown attenuates mitochondrial dysfunction in primary

**HSCs by OCR assay.** Primary HSCs were transfected with p66Shc siRNA or negative control followed by TGF- $\beta$ 1 stimulation. The OCRs were measured, followed by the sequential treatment with oligomycin, FCCP, as well as mixture of antimycin A and rotenone. (A) OCR; (B) basal respiration; (C) ATP production; (D) maximal respiration; (E) spare capacity. Each data point represents an OCR measurement, n=3. ##P<0.01, #P<0.05.