

SUPPLEMENTARY TABLES

Supplementary Table 1. The demographic data and the specified parameters of donor.

	Gender	Age (years)	Fasting blood glucose (mmol/L)	HbA1c (%)	Fasting insulin (mIU/L)
Healthy Donor 1	male	55	5.3	5.0	8.48
Healthy Donor 2	male	46	5.2	5.6	9.8
Healthy Donor 3	female	50	5.6	5.2	9.3
T2DM Donor 1	male	48	6.3	6.7	10.6
T2DM Donor 2	female	51	7.3	7.0	9.48
T2DM Donor 3	female	47	6.8	6.6	10.8

Supplementary Table 2. Primers Used in Real Time PCR analysis.

Gene	Primer sequence (5'-3')	Product size (bp)	Tm (°C)
<i>ALp</i>	F:5-GAGATGGTATGGGCGTCTC-3 R:5-GTTGGTGTGTACGTCTTGGA-3	143	61.6
<i>Runx2</i>	F:5- CAAGTGGCCAGGTTCAACGA-3 R:5-GGGACCGTCCACTGTCACCTTTAATA-3	141	56.9
<i>Ocn</i>	F: 5-TGCAAAGCCCAGCGACTCT-3 R: 5-TTGAGCTCACACACCTCCCTGT-3	159	59.9
<i>Opn</i>	F: 5-GCCGAGGTGATAGCTTGGCTTA-3 R: 5- TTGATAGCCTCATCGGACTCCTG-3	136	57.5
<i>β-actin</i>	F:5-GGAGATTACTGCCCTGGCTCCTA-3 R:5-GACTCATCGTACTCCTGCTTGCTG-3	150	57.8

Supplementary Table 3. Antibodies used in western blot analysis and immunofluorescence staining.**Western blot:**

Antibody/marker	Dilution	Source	Code number
LC3B	1:800	Cell Signaling Technology	#3868
LC3I/II	1:1000	Cell Signaling Technology	#4599
P62	1:1000	Protein Tech	18420-1-AP
TGF- β 1	1:1000	Protein Tech	21898-1-AP
P-Smad3	1:1000	Cell Signaling Technology	#8828
Smad3	1:1000	Cell Signaling Technology	#8685
T β R1	1:1000	Abcam	ab31013
T β R2	1:1000	Abcam	ab61213
GAPDH	1:2000	Bioworld	AP0063
β -actin	1:2500	Bioworld	BM0627

Immunofluorescence staining:

Antibody/marker	Dilution	Source	Code number
LC3B	1:200	Cell Signaling Technology	#3868
LC3I/II	1:400	Cell Signaling Technology	#4599