

Table S1. Effect of HFD-feed on body weights in ZDF rats.

Group	n	Week 0 (g)	Week 1 (g)	Week 2 (g)	Week 3 (g)	Week 4 (g)
Control	5	266.67±5.74	280.30±6.46	295.10±6.15	320.41±6.83	331.20±9.11
Model	5	354.03±11.42***	383.12±32.31***	398.74±35.01***	428.75±54.75***	435.10±63.48***

Table S1. Effect of HFD-feed on body weights in ZDF rats. Data are represented as mean ± SD. Statistically significant between control group and experimental group were indicated by ***P<0.001.

Table S2. Effect of HFD-feed on fasting glucose in ZDF rats.

Group	n	Week 0 (mmol/L)	Week 1 (mmol/L)	Week 2 (mmol/L)	Week 3 (mmol/L)	Week 4 (mmol/L)
Control	5	3.32±0.15	3.30±0.32	3.58±0.25	3.30±0.09	3.62±0.16
Model	5	14.82±2.50***	17.80±2.69***	19.20±5.47***	22.56±3.77***	25.66±2.85***

Table S2. Effect of HFD-feed on fasting glucose in ZDF rats. Data are represented as mean ± SD. Statistically significant between control group and experimental group were indicated by ***P<0.001.

Table S3. Primer sequences of qRT-PCR assay

Gene		Primer sequences
miR-34a-5p	Stem loop primer	5'-GTCGTATCCAGTGC GTGTCGTGGAGTCGGCAATTGCACTGGATACGACGCAGTG-3'
	Forward primer	5'-CGTCCACAACCAGCTAAGA-3'
	Reverse primer	5'-GCAGGGTCCGAGGTATTC-3'
miR-452-5p	Stem loop primer	5'-GTCGTATCCAGTGC GTGTCGTGGAGTCGGCAATTGCACTGGATACGACTGCAGA-3'
	Forward primer	5'-CGGCCTCAGTTTCCTCTGCA-3'
	Reverse primer	5'-GCAGGGTCCGAGGTATTC-3'
U6	Forward primer	5'-CTCGCTTCGGCAGCACATATACT-3'
	Reverse primer	5'-ACGCTTCACGAATTTGCGTGTC-3'

Table S3. Primer sequences of qRT-PCR assay. MiR-34a-5p and miR-452-5p both use

special stem-loop primers at reverse transcription, and U6 is the internal reference gene.