

## SUPPLEMENTARY DATA

**Supplementary Table 1.** The sequences of primers used in Generating Various Constructs.

Primers name	Primer sequences
CITED2 CR F	TGGAGCTAGCAGACCATATGATGGCCATG
CITED2 CR R	GATTTCTAGATTAACCGAGTCAACAGCTGAC
CITED2 3'-UTR F	TTATGCTAGCTCGCAGGCGGAAAGAAA
CITED2 3'-UTR R	GCCGTCTAGAATTTCTTAACTTTTTATTGAC
F1 F	TTATGCTAGCTCGCAGGCGGAAAGAAA
F1 R	AGACTCTAGAAATGAAGCGAGATGGCAG
F2 F	TAAGGCTAGCAACTATGCATTCGAGTACAG
F2 R	GCCGTCTAGAATTTCTTAACTTTTTATTGAC
F1 Mut F	CTGCACAAACTGCCATCTCGCTTC
F1 Mut R	TGCAGCCAACAAATGCAATGTTTC
F2 Mut F	TTGTACAAAACATTTTTTTGAG
F2 Mut R	AAAGCTTTCAACACAGTAGTATC

F: forward; R: reverse.

## SUPPLEMENTARY DATA

**Supplementary Table 2.** The dilutions and sources of antibodies in immunoblotting.

Antibodies name	Antibody sources	Dilution method
CITED2	Santa Cruz Biotechnology	1:1000
SOD1	Cell Signaling technology	1:1000
p-PERK	Cell Signaling technology	1:1000
PERK	Cell Signaling technology	1:1000
p-eIF2 $\alpha$	Cell Signaling technology	1:1000
eIF2 $\alpha$	Cell Signaling technology	1:1000
p-IRE1 $\alpha$	Cell Signaling technology	1:1000
IRE1 $\alpha$	Cell Signaling technology	1:1000
CHOP	Cell Signaling technology	1:1000
Cleaved Caspase 3	Cell Signaling technology	1:1000
$\beta$ -actin	Abcam	1:5000

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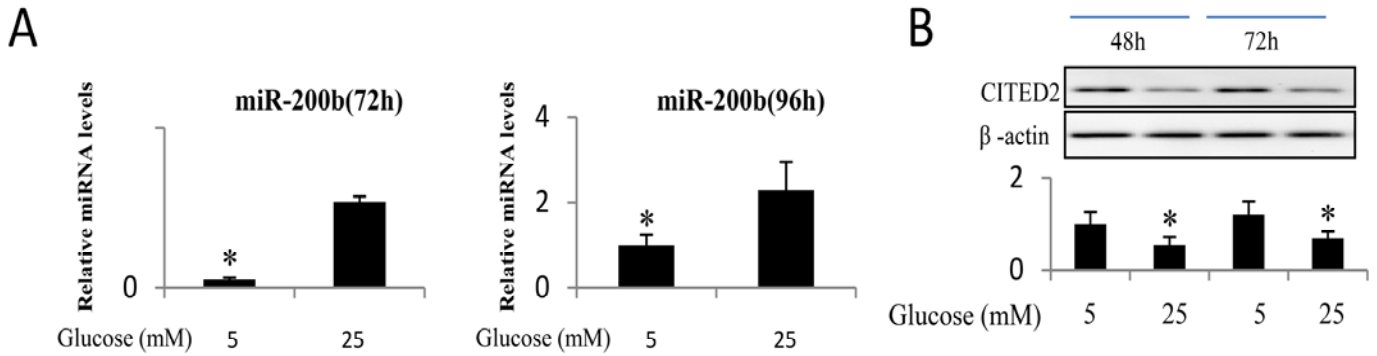
**Supplementary Table 3.** The sequences of primers used in RT-PCR.

Primers name	Primer sources	Primer sequences
CITED2 F	Primerbank ID: 2570051a1	CGCCAGGTTTAACAACCTCCCA
CITED2 R		TGCTGGTTTGTCCTGTCAT
mmu-miR-200b	Own design	GAATACTGCCTGGTAATGATGAAA

F: forward; R: reverse. mmu: murine.

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**Supplementary Figure 1. miR - 200b was up - regulated and CITED2 was down - regulated during 48h or longer high glucose treatment. A,** miR-200b levels were determined by real-time PCR and normalized by U6 in C17.2 cells cultured under normal glucose (5 mM glucose) or high glucose (25 mM glucose) conditions for 72 or 96 h. **B.** CITED2 protein expression in cells cultured under 5 mM glucose, 25 mM glucose for 48 and 72 h. Experiments were repeated three times (n = 3) and the quantification of data were shown in the bar graphs. \* indicates significant differences ( $P < 0.05$ ) compared to the 5 mM glucose group.



SUPPLEMENTARY DATA

**Supplementary Figure 2. Tempol restores CITED2 expression that is suppressed by 72h high glucose treatment.** CITED2 protein level in C17.2 cells cultured under 5 mM glucose or 25 mM glucose conditions for 72h in the absence or presence of tempol (100 mM). Experiments were repeated three times (n = 3) and the quantification of data were shown in the bar graph. \* indicates significant differences ( $P < 0.05$ ) compared to the 5 mM glucose groups and the 25 mM glucose plus tempol group.

