Figure S1. Effect of the CHO treatment on the cell viability and the transfection efficiency of miR-24 in MIN6 cells. (A) MIN6 cells were treated with 2.5, 5 mM or 10 mM soluble cholesterol for 12 h, and then the cell viability was measured using the cell counting kit-8 assay. *P<0.05 vs. the 0 mM CHO-treated group; (B) Changes in the levels of the miR-24 in MIN6 cells transfected with the miR-24 mimic/inhibitor were detected using reverse transcription-quantitative PCR. **P<0.01 vs. the Scr-treated group, Scr, scrambled miRNA sequence; CHO, cholesterol; miR, microRNA.

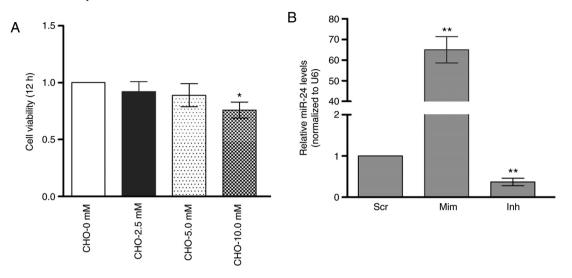


Figure S2. Direct inhibition of Sp1 function affects the levels of proteins involved in the Sp1/Scgn-FAK signaling pathway and attenuates insulin secretion in MIN6 cells. (A) A pretreatment with the Sp1 inhibitor MMA decreased the levels of the Scgn, p-FAK and p-paxillin proteins. (B) MMA pretreatment significantly attenuated GSIS in MIN6 cells. **P<0.01 vs. the control. MMA, mithramycin A; p-FAK, phosphorylated-focal adhesion kinase; Scgn, secretagogin; MMA, mithramycin A.

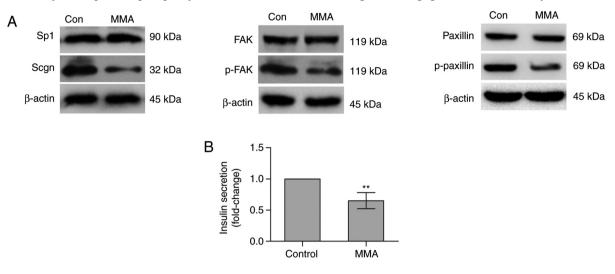


Table SI. List of the online databases used for bioinformatics analysis.

Websites	
mission.html moinit.cgi?dirDB=TF_8.3/ ence-analysis	
moinit	