## **Supplemental Information**

IncRNA NR\_038323 Suppresses Renal Fibrosis

in Diabetic Nephropathy by Targeting

the miR-324-3p/DUSP1 Axis

Yanni Ge, Juan Wang, Dengke Wu, Yu Zhou, Shuangfa Qiu, Junxiang Chen, Xuejin Zhu, Xudong Xiang, Huiling Li, and Dongshan Zhang

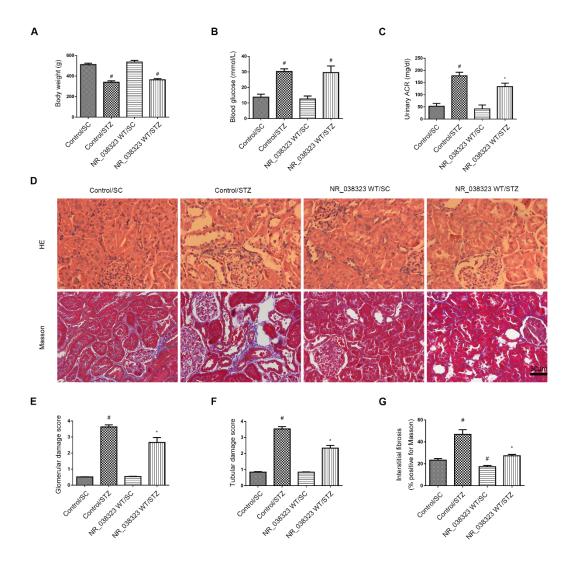
## $LncRNA\ NR\_038323\ suppresses\ renal\ fibrosis\ in\ diabetic\ nephropathy\ by\ targeting$ $miR-324-3p/DUSP1\ axis$

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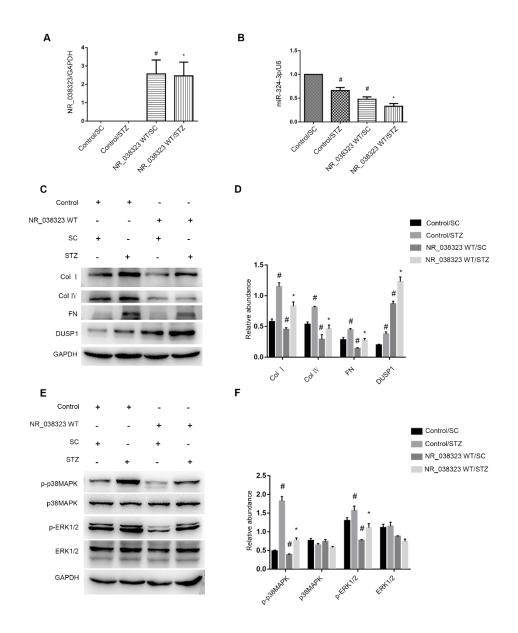
## **Supplementary Table** Patient characteristics

Variable	MCD	DN
	(10)	(9)
Age(years)	45.8±4.8	48.5±2.1
Gender (Male: Female)	5:5	5:4
Serum Glucose(mmol/L)	5.1±0.4	10.6±2.1 <sup>#</sup>
eGFR	118.6±1.0	70.4±15.1 <sup>#</sup>
Urine Protein		+: 3
		++: 3
		+++: 3

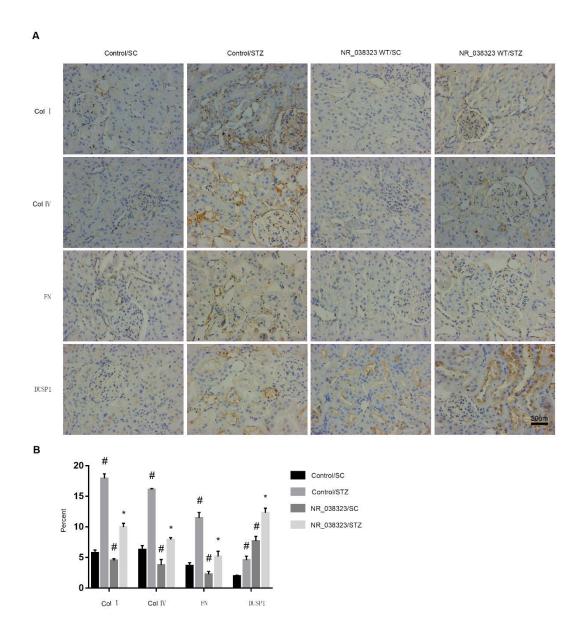
Note: — indicate the lack of proteinuria.



Supplementary Figure 1. Attenuation of renal Fibrosis in STZ-induced DN rats following overexpression of LncRNA NR\_038323. (A) The body weights of the rats. (B) Fasting glucose.(C) Urinary ACR measurements. (D) The staining of H&E and Masson. Quantification of glomerular damage score (E), tubular damage score (F), and tubulointerstitial fibrosis analysis (G) in the kidney cortex. Original magnification, ×200. Bar, 50μm. Data are expressed as mean ± SD (n=6). #p < 0.05, STZ or LncRNA NR\_038323 group vs. Control group; \*p < 0.05, STZ-treated with lncRNA NR\_038323 group vs. STZ group.



Supplementary Figure 2. Reduction of collagen I, collagen IV, fibronectin, α-SMA via targeting miR-324-3p/DUSP1/p38MAPK and ERK1/2 axis in STZ-induced DN rats following overexpression of LncRNA NR 038323. (A) RT-qPCR analysis of lncRNA NR 038323. (B) RT-qPCR analysis of miR-324-3p. (C) Western blot analysis of collagen I, collagen IV, fibronectin, α-SMA, DUSP1, and GAPDH. (D) Densitometric quantification of western blot bands. (E) Western blot analysis of p-p38MAPK, p38MAPK, p-ERK1/2, ERK1/2, and GAPDH. (F) Densitometric quantification of western blot bands. Data are expressed as means ± SD (n = 6). Data are expressed as mean ± SD (n=6). #p < 0.05, STZ or LncRNA NR 038323 group vs. Control group; \*p < 0.05, STZ-treated with lncRNA NR 038323 group vs. STZ group.



Supplementary Figure 3. Inhibition of collagen I, collagen IV, fibronectin, and  $\alpha$ -SMA expressions detected by immunochemistry in STZ-induced DN rats following overexpression of lncRNA NR\_038323 (A) Immunohistochemical staining of collagen I, collagen IV, fibronectin, and  $\alpha$ -SMA . (B) Quantification of immunohistochemical staining of collagen I, collagen IV, fibronectin, and  $\alpha$ -SMA. Original magnification, ×200. Bar, 50  $\mu$ m. Data are expressed as mean  $\pm$  SD (n=6). #p < 0.05, STZ or LncRNA NR\_038323 group vs. Control group; \*p < 0.05, STZ-treated with lncRNA NR\_038323 group vs. STZ group.