

SUPPLEMENTARY DATA

**MicroRNA-192 Inhibitor Ameliorates Renal Fibrosis in a Diabetic Mouse
Model**

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Running title: AntimiR-192 and Diabetic Nephropathy

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Legends for Supplementary Figures

Supplementary Figure 1. Levels of miR-192 in renal cortex and glomeruli of LNA oligos - injected non-diabetic C57BL/6 mice. (A-B) miR-192 and miR-194 expression levels respectively in renal tissues from non-diabetic mice injected with LNAanti-miR-192 (LNA) or control (NC) (2-17wks). Glome, glomeruli (mean and S.E. n= number of mice per group). White bar, Control + negative control oligo (CNC), Black bar, Control + LNA-antimiR-192 (CLNA). **, P<0.01; #, P<0.001, respectively.

Supplementary Figure 2. Levels of miR-192 in renal cortex and glomeruli of LNA oligos - injected non-diabetic and diabetic DBA/2 mice. (A-B) miR-192 and miR-194 expression levels in non-diabetic mice (A). White bar, Control + negative control oligo (CNC), Black bar, Control + LNA-antimiR-192 (CLNA). Diabetic mice (B) in renal tissues from DBA/2 mice injected with LNAanti-miR-192 (LNA) or control (NC) (7wks). Glome, glomeruli (mean and S.E. n= number of mice per group). White bar, STZ + negative control LNA-antimiR-239b (SNC); black bar, STZ + LNA-antimiR-192 (SLNA). **, P<0.01; #, P<0.001, respectively.

Supplementary Figure 3. Levels of profibrotic genes (Col1A2, Col4A1, TGF- β , CTGF and FN) in renal glomeruli of control, diabetic and LNA-oligos injected diabetic C57BL6 mice at 2 wk. White bar, Non-diabetic; Gray bar, Diabetic; Black bar, Diabetic + LNA-antimiR-192. Mean and S.E. values are shown. Each category has more than 3 mice per group. *, P<0.05; **, P<0.01; #, P<0.001, respectively.

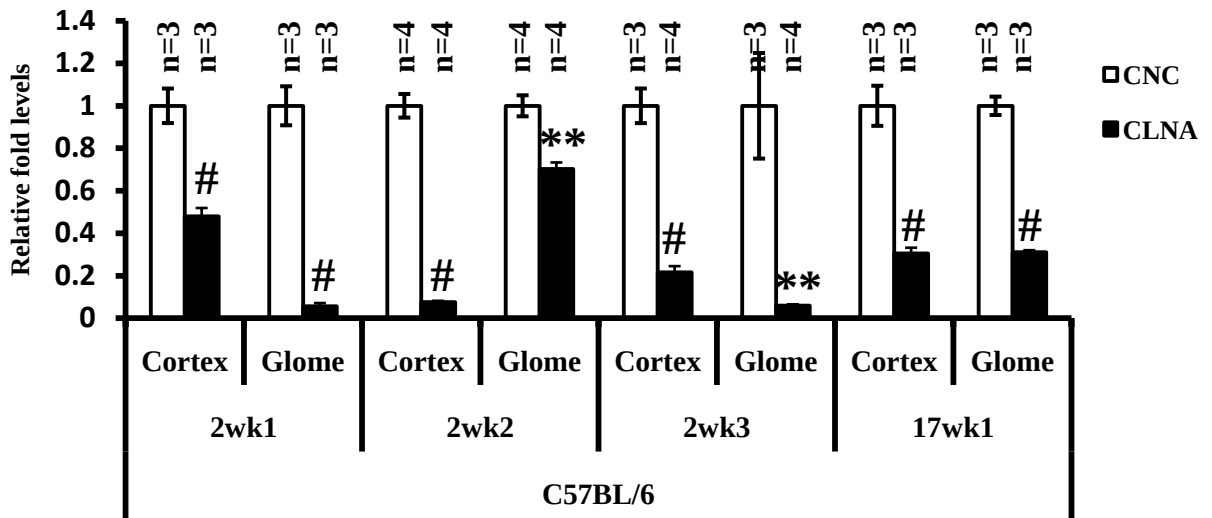
Supplementary Table 1. Primer sequences of the genes include forward and reverse primers.

CypA:	5'-ATGGTCAACCCCACCGTGT-3' and 5'-TTCTTGCTGTCTTTGGAACCTTGTC-3'
Col4A1:	5' –CACGAGCTTCCCTGGTAGTCGTG – 3' and 5' – GGACAACCTTTCCTGCCTCA – 3'
Col1A2:	5' –CAGAACATCACCTACCACTGCAA- 3' and 5' –TTCAACATCGTTGGAACCCTG- 3'
ZEB1:	5' –CATTTGATTGAGCACATGCG- 3' and 5' –AGCGGTGATTCATGTGTTGAG- 3'
ZEB2:	5' –CCCTTCTGCGACATAAATACGA- 3' and 5' –TGTGATTCATGTGCTGCGAGT- 3'
TGF- β 1:	5' –CAACGCCATCTATGAGAAAACC- 3' and 5' –AAGCCCTGTATTCCGTCTCC- 3'
CTGF:	5'- GCGAAGCTGACCTGGAGGA – 3' and 5' – CGCACGAGTGGTGGTTCTGTGCG – 3'
FN:	5' – CGGCGTATGCTGTCACTGGCCG – 3' and 5' – AAGTTGAAGGCAGCCACCTG -3'

Supplementary Figure 1 (Putta et al.)

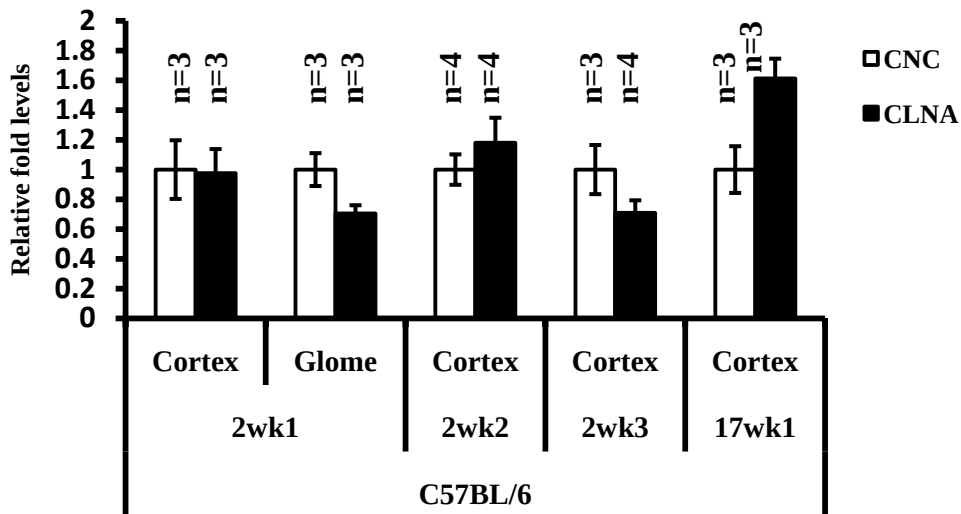
A

miR-192 Nondiabetic Mice



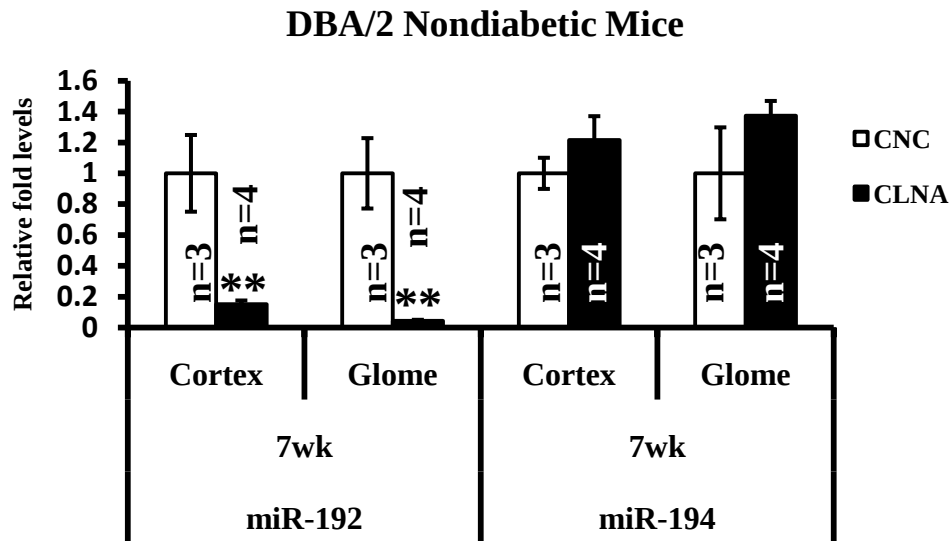
B

miR-194 Nondiabetic Mice

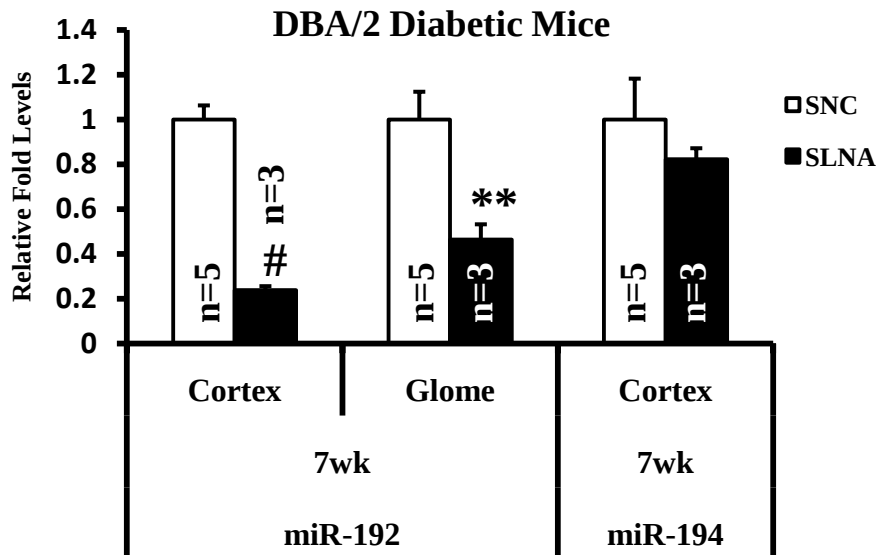


Supplementary Figure 2 (Putta et al.)

A



B



Supplementary Figure 3 (Putta et al.)

