SUPPLEMENTAL INFORMATION

SUPPLEMENTAL TABLES

Table S1. Oligonucleotide pairs used for qPCR

| Gene   | 5' - 3' forward       | 5' - 3' reverse         |
|--------|-----------------------|-------------------------|
| NPPA   | ATGGGCTCCTTCTCCATCAC  | TCTACGGGCATCTTCTCCTC    |
| NPPB   | AAGTGCTAGCCAGTCTCCAGA | GAGCTGTCTCTGGGCAATTTC   |
| TIMP-1 | CTGCTCAGCAAAAGCTTTC   | CTCCAGTTTGCAAGGGATAG    |
| Coll1a1| CTTCCACCTACAGCAACCTATG| CTTGGTGGTTTGTATTGCATGAC |
| Coll3a1| GCGATTCAAGGCTGAAG     | GGTTGCGATATCTATGATGG    |
| IL6    | TCCCAACAGACCTGTCTTAC  | CAGAATTGCCATTGACCAACTC  |
| LGALS3 | CCCGCTTCAATGAGAACAAC  | ACCGCAACCTGGAAGTGGTC    |
| GDF-15 | TGCACCGCTGTCGGGATAC   | GTGCACGGCGTGCTTTC       |
| 36b4   | AAGCGGTCTCCTGGCATTGTC | GCAGCCGCAAATGCAGATGG    |

Table S2. Bodyweight, and corrected LV weights

| Group          | BW          | LV/TL (mg/mm) |
|----------------|-------------|---------------|
| Sham (8 weeks) | 31.2 ± 0.6  | 6.5 ± 0.2     |
| tLAD (8 weeks) | 28.9 ± 0.6  | 6.5 ± 0.2     |
| pLAD (8 weeks) | 31.4 ± 0.5* | 8.9 ± 0.3*    |
| Sham          | 27.7 ± 0.5  | 6.43 ± 0.14   |
| TAC4          | 25.1 ± 0.4* | 10.26 ± 0.4*  |
| TAC8          | 27.1 ± 0.8  | 12.30 ± 0.4*  |
| Sham          | 31.7 ± 0.8  | 7.0 ± 0.2     |
| HFD           | 42.8 ± 1.9* | 7.3 ± 0.3     |
| HFD+AngII     | 38.5 ± 1.1* | 9.4 ± 0.4*    |

BW=bodyweight; LV/TL=Left ventricular weight divided by tibia length. N=7-12
* p<0.05 as compared to sham control; # p<0.05 as compared to tLAD, TAC4 or HFD, respectively.
Figure S1

A. Temporal and permanent LAD ligation (tLAD+pLAD+sham)

Operations/MRI

sacrifice

3 d sham/tLAD

1 wk sham/tLAD

3 wks sham/tLAD

8 wks sham/tLAD/pLAD

0d 3 d 1 wk 3 wks 8 wks

B. Transverse aortic constriction (TAC)

Sham/TAC

4 wks sham/TAC

8 wks sham/TAC

0 4 wks 8 wks

C. LFD/HFD with or without AngII infusion

LFD/HFD

AngII/saline IPGTT BMC MRI

16 wks LFD/HFD/HFD+AngII

0 wks 12 wks 14 wks 15 wks 16 wks
Figure S2

|        | 3 days | 1 wk  | 3 wks | 8 wks |
|--------|--------|-------|-------|-------|
| Sham   |        |       |       |       |
| tLAD   |        |       |       |       |
| Sham   |        |       |       |       |
| TLAD   |        |       |       |       |
| Sham   |        |       |       |       |
| tLAD   |        |       |       |       |
| Sham   |        |       |       |       |
| tLAD   |        |       |       |       |
| pLAD   |        |       |       |       |

ANP

Gal-3

GAPDH
Figure S4

(A) Liver Kidney Lung

(B) Lung

(C) Lung

(D) Lung
Figure S6

A  tLAD/pLAD

B  TAC4/TAC8

C  HFD/HFDAngII

ANP/GAPDH

Gal-3 (ng/mg)

GDF-15 (pg/mg)

TIMP-1 (pg/mg)

Sham  tLAD  pLAD

Sham  TAC4  TAC8

Sham  LFD  HFD  HFD+ AngII

Sham  tLAD  pLAD

Sham  TAC4  TAC8

Sham  LFD  HFD  HFD+ AngII

Sham  tLAD  pLAD

Sham  TAC4  TAC8

Sham  LFD  HFD  HFD+ AngII

Sham  tLAD  pLAD

Sham  TAC4  TAC8

Sham  LFD  HFD  HFD+ AngII

Sham  tLAD  pLAD

Sham  TAC4  TAC8

Sham  LFD  HFD  HFD+ AngII

Sham  tLAD  pLAD

Sham  TAC4  TAC8

Sham  LFD  HFD  HFD+ AngII
Figure S7

A

Fibrosis (%) vs Time

|   | Sham | TAC 4 wks | TAC 8 wks |
|---|------|-----------|-----------|
|   | 0    | 2         | 3         |

* indicates significant difference.
Figure S9

(A) Fat mass (g)
- LFD
- HFD
- HFD + AngII

(B) Lean mass (g)
- LFD
- HFD
- HFD + AngII
Figure S11

A

$\text{VAT Gal-3 (ng/mg)}$

$\text{Plasma Gal-3 level (ng/mL)}$

$r = 0.873, P < 0.05$

B

$\text{VAT GDF-15 (pg/mg)}$

$\text{Plasma GDF-15 level (pg/mL)}$

$r = 0.631, P < 0.05$

C

$\text{VAT TIMP-1 (pg/mg)}$

$\text{Plasma TIMP-1 level (pg/mL)}$

$r = 0.401, P = \text{n.s}$