## SUPPLEMENTARY FIGURE LEGENDS

Supplementary Figure 1. A) Relative mRNA expression of TF and Alternatively-spliced TF in Low-TF transgenic mice (LV heart tissues) with and without STZ. B) The TF protein expression in Low-TF diabetic and non-diabetic control hearts. Low-TF n=8, Control and n=8, STZ. Relative mRNA expression of C) genes of inflammation, NFkB p65, PAR1, PAR2, TNFa, IFNg and IL1a; and **D**) fibrosis related genes, Collagen 1a1, Collagen 3a1, MMP 2, MMP 9 and TIMP1 in wildtype (WT) diabetic and non-diabetic control mice heart (LV) samples. WT mice n=4 and n=6 for control and STZ, respectively. All bar graphs are shown with error bars (SEM). E) Non-fasting blood glucose levels measured randomly in nondiabetic control (green lines) and diabetic (STZ-red lines) mice from WT, TF-Het and Low-TF groups. Starting point (Week 1) is at least 3-days post STZ injection (last dose). The blood glucose levels were measured simultaneously in control versus STZ for any respective genotype at any given time. F) Body weight measured randomly at various time-points in WT, TF-Het and Low-TF mice (control-green versus STZ-blue lines) during the course of the study. G) Plasma triglyceride levels measured in all 3 groups of mice using ELISA. WT n=4,7; Het n=7,6; and TF-Low n=7,7 for control (black dots) and STZ (blue dots), respectively. one-way ANOVA with post hoc Bonferroni method for multiple comparisons was used here. Two-tailed unpaired t-test was used for A, C, and D; whereas simple linear regression was used for E and **F** to compare if slopes and intercepts were significantly different. Only significant p-values are presented (\* p=0.004 WT-STZ vs. TF-Het-STZ, and # p=0.031 WT-STZ vs. Low-TF-STZ).

Supplementary Figure 2. A) Left ventricular ejection fraction (%), B) Fractional shortening
(%), C) E to A ratio, D) Isovolumic relaxation time, and E) Tei index, in diabetic (STZ) from

WT, Het and Low-TF mice. One-way ANOVA with post hoc Tukey method used for comparisons across the genotypes here. All bar graphs are shown with error bars (SEM).

Supplementary Figure 3. A) Cardiac TF is upregulated in *Type 2 Diabetes*. Relative mRNA expression (normalized against respective  $\beta$ -actin) of *Tissue Factor* and *Alternatively-spliced tissue factor* (*asTF*) in diabetic (db/db) and non-diabetic (control) heart (LV) samples from 12 weeks old C57B/6J mice (diabetic age 6 weeks). Data presented mean ± SEM; Welch's t-test used for comparisons here; \*p<0.05, \*\*p<0.01; db/db mice n=5, and Control n=5. B)

**Inflammation in Type 2 diabetic hearts.** Relative mRNA expression (fold-change) of *IL6, IL33* and *TLR4* genes in diabetic (db/db) and non-diabetic (Control) hearts (LV). One-way ANOVA with post hoc Dunnett method was used for multiple comparisons; db/db mice n=5, and Control n=5. All bar graphs are shown with error bars (SEM). However, in some cases, the error bars may appear too small to see clearly.



## Supplementary Figure 2



## Supplementary Figure 3





