### Supplementary Table 1. Primers used for quantitative real-time PCR

|   | Forward                                      | Reverse                                      |
|---|----------------------------------------------|----------------------------------------------|
| ANP | 5'-AAGAACCTGCTAGACCACCTGGAG-3'              | 5'-TGCTTCCTCAGTCTGCTCACTCAG-3'               |
| BNP | 5'-GGAAAGTCCTAGCAGTCAGTCCAGAG-3'            | 5'-GCCTGGTCCTCAAGAGGCTCAG-3'                 |
| β-MHC | 5'-GCAAGACGGTGACTGTGAAGGAG-3'                | 5'-GGTTGACGGTGACGCAAGAAGAG-3'                |
| Acta-1 | 5'-GCCGCTATCTCCTCGTGACC-3'                  | 5'-ACGCTCATCGCCATGGGTGAT-3                   |
| IL-1β | 5'-TCGCCAGACACATCAACAAAGAG-3'                | R-5'-TGCTCATCGTCCTACCTCGGAAAGG-3             |
| TNF-α | 5'-ACGGCATGGATCTCAAAAGAC-3'                  | 5'-AGATAGCAAATCGGCTGAG-3                     |
| IL-6 | 5'-ACAACGATGATGCACTTGCAGA-3'                 | 5'-GATGAATGGATGGTCTTGTC-3                    |
| IL-10 | 5'-GCTCTTACTGACTGGCA TGAG-3'                 | 5'-CGCACGCTTAGGAGCAGTTG-3                    |
| TGF-β1 | 5'-GCAACAATCTCCTGGGTACCTTG-3'                | 5'-CAGCCACTGCGTGACA AACTCC-3'                |
| Collagen 1a | 5'-TGTTCTGCTGCTGCTTGCT-3'                  | 5'-CTGACCTTGGCCATGGCTTAC-3'                  |
| Collagen 3a | 5'-TCTTCTGTTGCTGCTGCTG-3'                  | 5'-TCAATGTTGCTCAACTGCTTGTC-3'                |
| GAPDH | 5'-ACCACACTGCCATGCA-3'                      | 5'-GCCACACCTTGTTGCTGTA-3                     |

### Supplementary Table 2. Heart weight and body weight of mice after Dox-induced number

| number     | Heart weight(mg) | Body weight(g) |
|------------|------------------|----------------|
| WT+Saline1 | 128              | 32             |
| WT+Saline2 | 129              | 30             |
| WT+Saline3 | 124              | 32             |
| WT+Saline4 | 131              | 30             |
| WT+Saline5 | 131              | 34             |
| WT+Saline6 | 125              | 29             |
| IKKe-KO+Saline1 | 129         | 34             |
| IKKe-KO+Saline2 | 121         | 30             |
| IKKe-KO+Saline3 | 119         | 27             |
| IKKe-KO+Saline4 | 127         | 29             |
| IKKe-KO+Saline5 | 124         | 29             |
| IKKe-KO+Saline6 | 131         | 31             |
| WT+Dox1    | 143              | 22             |
| WT+Dox2    | 146              | 24             |
| WT+Dox3    | 146              | 24             |
| WT+Dox4    | 139              | 25             |
| WT+Dox5    | 148              | 25             |
| WT+Dox6    | 136              | 22             |
| IKKe-KO+Dox1 | 131         | 26             |
| IKKe-KO+Dox2 | 130         | 28             |
| IKKe-KO+Dox3 | 128         | 26             |
| IKKe-KO+Dox4 | 127         | 26             |
|       |       |       |
|-------|-------|-------|
| IKKc-KO + Dox5 | 132 | 27 |
| IKKc-KO + Dox6 | 133 | 25 |