**S5 Table.** Primer pairs for real time RT-PCR are shown.

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| **Gene** | **Primer sequence** |
| Mm\_*Gapdh*\_forward | 5'-ATG GTG AAG GTC GGT GTG A-3' |
| Mm\_*Gapdh*\_reverse | 5'-AAT CTC CAC TTT GCC ACT GC-3' |
| Mm\_*Ninj1*\_forward | 5'-TCG TGC TGC AGA TAG GAG TG-3' |
| Mm\_*Ninj1*\_reverse | 5'-GAA GAT GTT GAC CAC GAC GA-3' |
| Mm\_*Myh1*\_forward | 5'-AAT CAA AGG TCA AGG CCT ACA A-3' |
| Mm\_*Myh1*\_reverse | 5'-GAA TTT GGC CAG GTT GAC AT-3' |
| Mm\_*Myh2*\_forward | 5'-AAC TCC AGG CAA AAG TGA AAT C-3' |
| Mm\_*Myh2*\_reverse | 5'-TGG ATA GAT TTG TGT TGG ATT GTT-3' |
| Mm\_*Myh4*\_forward | 5'-TGG CCG AGC AAG AGC TAC-3' |
| Mm\_*Myh4*\_reverse | 5'-TTG ATG AGG CTG GTG TTC TG-3' |
| Mm\_*Myh7*\_forward | 5'-CGC ATC AAG GAG CTC ACC-3' |
| Mm\_*Myh7*\_reverse | 5'-CTG CAG CCG CAG TAG GTT-3' |
| Mm\_*Nppa*\_forward | 5'-GGG GGT AGG ATT GAC AGG AT-3' |
| Mm\_*Nppa*\_reverse | 5'-ACA CAC CAC AAG GGC TTA GG-3' |
| Mm\_*Nppb*\_forward | 5'-GCA CAA GAT AGA CCG GAT CG-3' |
| Mm\_*Nppb*\_reverse | 5'-CTT CAA AGG TGG TCC CAG AG-3' |
| Rn\_*Gapdh*\_forward | 5'-CAA GGT CAT CCA TGA CAA CTT TG-3' |
| Rn\_*Gapdh*\_reverse | 5'-GGG CCA TCC ACA GTC TTC TG-3' |
| Rn\_*Myh6*\_forward | 5'-TGCAGAAGAAACTGAAGGAAA-3' |
| Rn\_*Myh6*\_reverse | 5'-GCT CCG CCT CTA GCT CCT-3' |
| Rn\_*Nppb*\_forward | 5'-TCC AAG ATG GCA CAT AGT TCA-3' |
| Rn\_*Nppb*\_reverse | 5'-AGC CCA AGC GAC TGA CTG-3' |
| Rn\_*18S rRNA*\_forward | 5'-GCA ATT ATT CCC CAT GAA CG-3' |
| Rn\_*18S rRNA*\_reverse | 5'-GGG ACT TAA TCA ACG CAA GC-3' |
| Rn\_*Ninj1*\_forward | 5'-GAA GCC TGT CAT GGA CGT G-3' |
| Rn\_*Ninj1*\_reverse | 5'-GAT GCC TTG GGG ATA CAG C-3' |

Ninj1 indicates Ninjurin1; Nppa, natriuretic peptide A; Nppb, B-type natriuretic factor; Myh, myosin heavy chain; Mm, Mus musculus; Rn, Rattus norvegicus.