**Supplementary file 1.** Oligos used for qRT-PCR and clonings

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| **Primers** | **Sense** | **Reverse** |
| **qRT-PCR (mouse)**  |  |  |
| *Mypn* | CATGCTTTGCTTCCAACATT  | GGCTTCTGGATTCGATTCAT  |
| *Palld 200 kDa* | CATCCAGAAACTGAGGAGCC  | AGCTTTCGCTGTCAGAGTCC  |
| *Palld 140 kDa* | TGCTGCCTGTGCATTTTCCC  | AGCTTTCGCTGTCAGAGTCC  |
| *Palld 90 kDa* | AGGAGCCCTCGACACCCA  | TCCTGTTCCAGGCGCACTTGG  |
| *Palld all isoforms*  | GTATTGCCACCAACAGAG | CCTTGTGTGCTTCCTTAG |
| *Ankrd1* | GCTGGAGCCCAGATTGAA  | CTCCACGACATGCCCAGT |
| *Nppa*  | ATCTGCCCTCTTGAAAAGCA | ACACACCACAAGGGCTTAGG |
| *Nppb*  | GGACCAAGGCCTCACAAAAG | AAAGAGACCCAGGCAGAGTC |
| *Acta1*  | AATGAGCGTTTCCGTTGC | ATCCCCGCAGACTCCATAC |
| *Actc1* | TGCCGATCGTATGCAAAAGG | GGCCTGCCTCATCATACTCT |
| *Myh6*  | CGCATCAAGGAGCTCACC | CCTGCAGCCGCATTAAGT |
| *Myh7* | GCATCAAGGAGCTCACC | CTGCAGCCGCAGTAGGTT |
| *Casq2*  | CCGCACGATTGAGTTTGAC | CACGATCTCCACTGGGTCTT |
| *B2m* | CCGTCTACTGGGATCGAGAC | GCTATTTCTTTCTGCGTGCAT |
| **Clonings** |
| pET-3d-6xHis human MYPN C-term. (Res. 813-1320; NM\_032578.3)  | ggctcgagt/TCCCCAATTCCTGTCTCTC | ggggaattc/TTAAAGTTCATCACTCT |
| pETM-14 human MYPN C-term. (Res. 945-1320; NM\_032578.3) | ttccaggggcccatg/CCCATCTTTGACAAGAGACTCA | ggtggtggtgctcga/TTAAAGTTCATCACTCTCCACTAC |
| pET-3d-6xHis human Titin Z4-Z5 (Res. 942-1173; NM\_001256850.1) | gggggctcgagatg/CCACCAACTTTGGTCTCGGGC | gggggaattctca/TTCAAGCAAGGAAGCAGATGCAGA |
| pETM-14 human PALLD C-term. (Res. 794-1123; NM\_001166108.1) | ttccaggggcccatg/CCATTCTTTGAGATGAAGCTGAAAC | ggtggtggtgctcga/TTAATGTCGAGAAATGTAAACGTCCAG |
| pGBKT7 human Titin IgZ4-Z5 (Res. 942-1173; NM\_001256850.1) | catggaggccgaattc/CCACCAACTTTGGTCTCGGGC | gcaggtcgacggatcctca/TTCAAGCAAGGAAGCAGATGCAGA |
| pGADT7 human MYPN full-length (Res. 1-1320; NM\_032578.3)  | ggaggccagtgaattc/ATGCAAGACGACAGCATAGAAGCTTCTACT  | cgagctcgatggatcc/TTAAAGTTCATCACTCTCCACTACACTCCG |
| pGADT7 human MYPN Ig3-end (Res. 945-1320; NM\_032578.3) | aactcgag/AGCCCATCTTTGACAAGAGACTC | ggggaattc/TTAAAGTTCATCACTCTCCACTAC |
| pGADT7 human MYPN Ig5-end (Res. 1172-1320; NM\_032578.3) | ctcgag/AGCCTGTGATCCTGGAGAAAC | ggggaattc/TTAAAGTTCATCACTCTCCACTAC |
| pGADT7 human MYPN Ig3-4 (Res. 945-1171; NM\_032578.3) | aactcgag/AGCCCATCTTTGACAAGAGACTC | ggggaattc/TTATGCTTTCTTCACCTCTTTGGC |
| pGADT7 human MYPN Ig4-end (Res. 1073-1320; NM\_032578.3)  | aactcgag/AGCCACATTTCCTGCAGGCTC | ggggaattc/TTAAAGTTCATCACTCTCCACTAC |
| pGADT7 human PALLD C-term. (Res. 794-1123; NM\_001166108.1) | ggaggccagtgaattc/CCATTCTTTGAGATGAAGCTGAAAC | cgagctcgatggatcc/TTAATGTCGAGAAATGTAAACGTCCAG |
| pLexA titin Z3-Z5 (Res. 3052-4371; NM\_001256850.1) | tttctcgagc/CCAACTTTGGTCTCGGGCTTA | tttggatcccta/CTCCACATACAATTTCCCTGA  |
| pLexA titin Z4-Z5 (Res. 3452-4371; NM\_001256850.1) | tttctcgagc/CCTGGAGAACCTGCCGCGCC  | tttggatcccta/CTCCACATACAATTTCCCTGA  |

Vector specific sequence is written in lowercase letters. FL, full-length