**Supplementary file 1. Primers used in this study**

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| Primer Name | Primer Sequence 5'-3' |
| F\_Full-length Hif-3α2 | GAGATAAACAAGCAGCAGTC |
| R\_Full-length Hif-3α2 | TGGACGCATGTGATGGACAG |
| F\_Hif-3α2 expression (BamHI, pCS2-eGFP) | GCGGATCCGCCACCATGGAGATGGAAGG |
| R\_Hif-3α2 expression (EcoRI, pCS2-eGFP) | TACCGGAATTCCAGTCAGGGATGGCAATGTTTCCGC |
| F\_Hif-3α2 expression (BamHI, pCS2-Flag) | CGGGATCCGAGATGGAAGGAGTGGAGAAGTTCTTCGCCCTC |
| R\_Hif-3α2 expression (EcoRI, pCS2-Flag) | CGGAATTCTCAAGTCAGGGATGGCAATGT |
| F\_ΔTAD | GCGGATCCGCCACCATGACCTTCCTGCCCCAGAGTG |
| R\_ΔTAD | TACCGGAATTCCAGTCAGGGATGGCAATGTTTCCGC |
| F\_ΔLZ | GCGGATCCGCCACCATGGAGATGGAAGG |
| R\_ΔLZ | CGGAATTCCCGGGTCCCTGTCGGTTAAAAG |
| F\_A36G | TTGGACATGCTAGGTCCATATATCTCC |
| R\_A36G | GGAGATATATGGACCTAGCATGTCCAA |
| F\_P37A | GATTTGGACATGCTAGCTGCATATATCTCCATGGACG |
| R\_P37A | CGTCCATGGAGATATATGCAGCTAGCATGTCCAAATC |
| F\_P47S | CGATGACTTCCAGTCGACCTTCCTGCCCCAG |
| R\_P47S | CTGGGGCAGGAAGGTCGACTGGAAGTCATCG |
| F\_M1 | GGCTGTGGATGAGGCTGCTGCGGACATGCTAGCT |
| R\_M1 | AGCTAGCATGTCCGCAGCAGCCTCATCCACAGCC |
| F\_M2 | CTCCATGGACGATGCCGCCGCGTTGACCTTCCTGC |
| R\_M2 | GCAGGAAGGTCAACGCGGCGGCATCGTCCATGGAG |
| F\_Hif-3α2 GST (BamHI, pGEX-KG) | CGGGATCCGAGATGGAAGGAGTGGAG |
| R\_Hif-3α2 GST (HindIII, pGEX-KG) | CCTAAGCTTTCAAGTCAGGGATGGCAA |
| F\_Hif-3α2 gRNA | GATCACTAATACGACTCACTATAGCCCCGCTGAAGAGCTGCCCAGTTTTAGAGCTAGAAAT |
| R\_Hif-3α2 gRNA | AAAAGCACCGACTCGGTGCC |
| F\_Hif-3α2 gRNA F1\_test | CAAAGTCCCAACAGTGTCCC |
| R\_Hif-3α2 gRNA R1\_test | GGTTAGCATTTCCAAAGGTG |
| F\_Hif-3α2 gRNA F2\_test | CGCAAGCTTCTGTCTCCAATA |
| R\_Hif-3α2 gRNA R2\_test | TGACTGTCCTTTCGGGGTTA |
| R\_Hif-3α2 gRNA R3\_test | CTTGAGGGCGAAGAACTTCT |
| F\_genotyping-F2 | CGCAAGCTTCTGTCTCCAATA |
| R\_genotyping-R2 | TGACTGTCCTTTCGGGGTTA |
| R\_genotyping-R3 | CTTGAGGGCGAAGAACTTCT |
| F\_genotyping-RT-F1 | CATGGAGATGGAAGGAGTGG |
| F\_genotyping-RT-F2 | CAGCGAGCCCCGCTGAAGAGC |
| R\_genotyping-RT-R | CTTCCAAACACCGTTTCCTAGA |
| F\_β-actin\_qRT-PCR | ACAGGGAAAAGATGACACAG |
| R\_β-actin\_qRT-PCR | AGAGTCCATCACGATACCAG |
| F\_her4\_qRT-PCR | AGGAGAACTGAACACAAGACAC |
| R\_her4\_qRT-PCR | TGCTGTTGATTCGCTCTCG |
| F\_foxj1a\_qRT-PCR | TACTTCCGCCACGCAGAT |
| R\_foxj1a\_qRT-PCR | TTGCCCGGTTCATCCTTCTG |
| F\_cacna1c\_qRT-PCR | TTGCAAACTGTGTGGCCTTAGCTG |
| R\_cacna1c\_qRT-PCR | TTCCGCAGGTATGCATTAGGGTGA |
| F\_p53\_qRT-PCR | CAGTCTGGCACAGCAAAATC |
| R\_p53\_qRT-PCR | TTTGCCAGCTGACAGAAGAG |
| F\_gapdh\_qRT-PCR | ACTGGAGAGCTCAAGTGCAG |
| R\_gapdh\_qRT-PCR | GTCCACGTCTCTCAAGCCAA |
| F\_gli1\_qRT-PCR | ACGCAGGATCCACTTCTTGG |
| R\_gli1\_qRT-PCR | CTCCTGCGTGTCGAACTCTT |
| F\_dusp6\_qRT-PCR | GCACAAGAGACTTTGGCGTG |
| R\_dusp6\_qRT-PCR | TCGATCTGCACGGGTTTGAA |
| F\_boz\_qRT-PCR | GATGTACTGCTGCTGCGTTCC |
| R\_boz\_qRT-PCR | CTGCTCCGTCTGGTTGTCG |
| F\_chd\_qRT-PCR | ACGCCTGCTGCCATACAAT |
| R\_chd\_qRT-PCR | CACTGAGGGTCCACCGAGA |
| F\_vox\_qRT-PCR | GCGCGCGGATTTTCTGCTGC |
| R\_vox\_qRT-PCR | GGGAACGGGAGCCGCTGTCT |
| F\_vent\_qRT-PCR | GGAGAGTGATGACAGTGAAGTAGA |
| R\_vent\_qRT-PCR | ACAGCGGGATAGAGGAAGT |
| F\_sox17\_qRT-PCR | CCGCTCTCAGACTCCAAATC |
| R\_sox17\_qRT-PCR | TTACTCAGCTCCGCATTGTG |
| F\_myod1\_qRT-PCR | GAGGACGAGCACGTGAGGGC |
| R\_myod1\_qRT-PCR | TCATGGTGGCGGCTTTGCGA |
| F\_myog\_qRT-PCR | CCTTCAGACCAGCTTTCACTGA |
| R\_myog\_qRT-PCR | CCAAGGCTTGTCTAACTTGCAA |