Supplementary File 4 - DNA oligonucleotides used

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| ***nil*1Mutant** |  |
| Nil gRNA1 sense | CTTCGGATGTGATGACTAGCAGCG |
| Nil gRNA1 antisense | TTTGGCGACGATCAGTAGTGTAGG |
| Nil gRNA2 sense | CTTCGGAAATGGAGGATAGCCACT |
| Nil gRNA2 antisense | TTTGTCACCGATAGGAGGTAAAGG |
|  |  |
| ***nil*1PCR Confirmation** |  |
| DsRed fwd | ACTCCAAGCTGGACATCACC |
| Nil rev | TCCGCTCTGCAATTCTTTTT |
| DsRed rev | GGGTGCTTCACGTACACCTT |
| Nil fwd | CAACATTTACCTGCGGTGTG |
|  |  |
| **Nil-Ty1 tagging** |  |
| Nil gRNA3 sense | CTTCGTAGCAACAGCTGTGCATTA |
| Nil gRNA3 antisense | TTTGATTACGTGTCGACAACGATG |
| Nil gRNA4 sense | CTTCGAGTATCTGGAAATTTCTCG |
| Nil gRNA4 antisense | TTTGGCTCTTTAAAGGTCTATGAG |
|  |  |
| **Nil tagging PCR Confirmation** |  |
| G4\_fwd | GCGTATAACGCGTTTGGAAT |
| Nil\_3'\_rev | TTGGTTTGGTCTGCATTTGA |
| G4\_rev | TCGGTTTTTCTTTGGAGCAC |
| Nil\_5'\_fwd | CGCAACGTGGTCATATTTTG |
|  |  |
| ***acn*S437AMutant** |  |
| AcnS437A gRNA1 sense | CTTCGGCTTTGCTCAGGCTGACCT |
| AcnS437A gRNA1 antisense | AAACAGGTCAGCCTGAGCAAAGCC |
| AcnS437A gRNA2 sense | CTTCGGGCAACGCTTGGTCCCGGT |
| AcnS437A gRNA2 antisense | AAACACCGGGACCAAGCGTTGCCC |
|  |  |
| ***acn*S437A PCR Confirmation** |  |
| DsRed fwd | ACTCCAAGCTGGACATCACC |
| AcnS437A rev | GGTTGCTGTGGTTTCGTTTT |
| DsRed rev | GGGTGCTTCACGTACACCTT |
| AcnS437A fwd | GCCAGCCTCTCAAGAAATCA |
|  |  |
| **qPCR Primers** |  |
| RP49\_ qPCR\_Fwd | ATCGGTTACGGATCGAACAA |
| RP49\_ qPCR\_Rev | GACAATCTCCTTGCGCTTCT |
| Pp1-13C\_qPCR\_Fwd | GGGACTACTCTGTGACCTGC |
| Pp1-13C\_qPCR\_Rev | AACCATCCTCGACGACTTGA |
| PpD6\_qPCR\_Fwd | CTGGTGCCCTGAATCTGAAC |
| PpD6\_qPCR\_Rev | AAAACTGCCCGTGTATGTCG |
| flw\_qPCR\_Fwd | CGGGTTACTGTGCGATCTTC |
| flw\_qPCR\_Rev | TAGCCATCCTCCACAACCTG |
| CG15035\_qPCR\_Fwd | GCACCCGATTTTAAGCCGAA |
| CG15035\_qPCR\_Rev | CTTTACCAGATCGCACCACC |
| CG6036\_qPCR\_Fwd | GACTAGCAGCGAGGTTTGTG |
| CG6036\_qPCR\_Rev | TCAAGACTCCTTTCGGCCTT |