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

|  |  |  |
| --- | --- | --- |
| **Gene** | **Direction** | **Primers (5’-3’)** |
| *Lcn9-Cre* (WT)(Genotype) | F1A | CTGCAATCTATATGGGCTGGACTC |
| R2 | CAGGGTAGTTTCCCACTCTTCTCAG |
| *Lcn9-Cre* (Genotype) | F1 | CTGCAATCTATATGGGCTGGACTC |
| R1 | TTTTCTTCAACATCTCCTGCTTGC |
| *Exosc10* F/F(Genotype) | F | AAGTAATTCTGAGCTGTCTGCCA |
| R | CCGGGCAGTACATATACCCAAAG |
| *Exosc10* | F | AGAGAGTGGGCATGTTACTGG |
| R | GCTGAGGTCGCACGATGTT |
| *Pten* | F | TGGATTCGACTTAGACTTGACCT |
| R | GCGGTGTCATAATGTCTCTCAG |
| *Ros1* | F | AGCTGGACTTTCACGGAGAC |
| R | GGTGGGGAATAAAGATGCAGTT |
| *Mst1* | F | TCATTCGGCTACGGAACAAGA |
| R | GACCTGCGACTCCAAAGTCTG |
| *Mst2* | F | CGGGGTCCGTTTCAGACATAA |
| R | GCGTTTTGCCATTGTATCTGTT |
| *Dicer1* | F | GGTCCTTTCTTTGGACTGCCA |
| R | GCGATGAACGTCTTCCCTGA  |
| *Ar* | F | CTGGGAAGGGTCTACCCAC |
| R | GGTGCTATGTTAGCGGCCTC |
| *Src* | F | TTTGGCAAGATCACTAGACGGG |
| R | GAGGCAGTAGGCACCTTTTGT |
| *Esr1* | F | TGTGTCCAGCTACAAACCAATG |
| R | CATCATGCCCACTTCGTAACA |
| *Esr2* | F | CTGTGCCTCTTCTCACAAGGA |
| R | TGCTCCAAGGGTAGGATGGAC |
| *β-actin* | F | GGCTGTATTCCCCTCCATCG |
| R | CCAGTTGGTAACAATGCCATGT |

AF, forward; R, reverse

**Supplementary Table 2.** Antibodies used in this study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Antibody | Company | Identifier | IF | WB |
| Rabbit anti-EXOSC10 | Abcam | Cat# ab50558 | 1:200 | 1:1000 |
| Rabbit anti-β-Actin | ABclonal | Cat# AC038 | NA | 1:100000 |
| HRP Goat anti-Rabbit IgG (H+L) | ABclonal | Cat# AS014 | NA | 1:10000 |
| Donkey anti-rabbit IgG, Alexa Fluor 594 | Thermo Fisher Scientific  | Cat# A-21207 | 1:200 | NA |