**Supplementary table 1** Primer sequences for genes designed and used in this study.

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| Primers | Primer sequences (5’-3’) | Length of production/bp |
| *INSL3* | F: CAGGAGGCGCCAGAGAAGCTGTGC | 312 |
| R: GGGACAGAGGGTCAGCAAGTCTTG |
| *PDGFRB* | F: ATGTCACAGTCGTCGAGAGC | 148 |
| R: GTCCGGTTGTCCTTGAACCA |
| *HSD11B2* | F: TCATCACCGGCTGTGACTC | 101 |
| R: AGGGCTATCCAACTCCAACA |
| *HSD17B3* | F: GGCTTTTGTGTGCACGTTCT | 236 |
| R: TCAGGCTCAGAATGATCGCC |
| *NR5A1* | F: CGAGGACCTGGACGAACTG  | 236 |
| R: GGAAGCGGCAGAAGGGA |
| *NR2F1* | F: GGACAAGTCGAGCGGCAA | 228 |
| R: GGTTGAGTTGGGGGCATTCT |
| *AR* | F: GTACCTGTGTGCCAGCAGA  | 238 |
| R: GGGCTGACACTCATAGCCTT |
| *CYP19A1* | F: GCATCATGCTGGACACCTCT | 101 |
| R: AGCTTGCCATGCATCAAAAT |
| *CYP26B1* | F: CGCTTGTTCACGCCTGTTTC  | 96 |
| R: GTACATGACGCTCCAGCCTT |
| *HAS1* | F: CTCGGCGACTCGGTGGACTAC | 250 |
| R: GGGGACCACTGATGCAGGACA |
| *NR4A3* | F: TCTGAGACGTGGTCCATCCA | 210 |
| R: CACTGAATGCTCTTGGGGCT |
| *CCL4* | F: TTCACATACACCGTGCGGAA | 148 |
| R: ACTCCTGGACCCAGTCATCA |
| *AMCFII* | F: ATGAGACTCCTAACCAGTCG | 288 |
| R: GTCCAGACAGACTTCCTTTC |
| *ND1* | F: AGCCACATCCTCAATCTCC | 205 |
| R: CCCGATGAGTGCGTATTTT |
| *XIRP1* | F: GACACAGCCCCTAGACCAAC | 150 |
| R: TGCTCCCGTTGGTGGATTAC |
| *HOMER1* | F: TGCGTTTTCCGACACGTAGA | 105 |
| R: ACGTTCAAACAGAGGTGGCA |
| *P450scc* | F: ACCGTTTCTGGAAGGAGAAGG | 135 |
| R: CCACATCTTCAGGGTCGATG |
| *PDGFRα* | F: GTGGAGAATCTGCTGCCTGG | 133 |
| R: TGTAGGTGACGCCGATGTAG |

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| Primers | Primer sequences (5’-3’) | Length of production/bp |
| *CYP17A1* | F: ATTGACTCCAGCATTGGCGA | 179 |
| R: CCGAAGGGCAAGTAGCTCAA |
| *StAR* | F: GGTTCTCAGCTGGAAGACACT | 146 |
| R: ACCTCGTCCCCATTCTCCTG |
| *3β-HSD* | F: TGCAGGAGATCCGGGTACTA | 125 |
| R: CTTCAGGCACTGCTCATCCA |
| *LHR* | F: GCCTCAGCCGACTATCACTC  | 144 |
| R: GGAGGTTGTCAAAGGCATTAGC  |
| *Map1-LC3* | F: CACTGCTCTGTCTTGTGTAGGTTG | 171 |
| R: TCGTTGTGCCTTTATTAGTGCATC |
| *Atg12* | F: TCCGTGCCATCACATACACA | 242 |
| R: TAAGACTGCTGTGGGGCTGA |
| *Beclin* | F: TGAATGAGGATGACAGTGAGCA | 248 |
| R: CACCTGGTTCTCCACACTCTTG |
| *Caspase3* | F: AGCTGGACTGTGGCATTGAG | 143 |
| R: CCACGACCCGTCCTTTGAAT |
| *Caspase9* | F: ATATCTTCAACGGGAGCGGC | 123 |
| R: TGCCTTGAGAGGAAGTGCAG |
| *Bax* | F: GCACGTCCACGATCAGTCA | 163 |
| R: ACCCTGTAGCAAAAAGGCCC |
| *Bcl2* | F: CTTTGAGTTCGGTGGGGTCA | 81 |
| R: ATCCACAGGGCGATGTTGTC |
| *Ccnd1* | F: CATTCCCTTGACTGCCGAGA | 177 |
| R: TTGTTCTCATCCGCCTCTGG |
| *PCNA* | F: GAACCTCACCAGCATGTCCA | 221 |
| R: ATTCACCCGACGGCATCTTT |
| *p53*  | F: ATGCGGTTCGGGTCCAAAAT  | 154 |
| R: CTAAATGGCAGTCGTTCTCTCC |
| *p21* | F: CCTGGTGATGTCCGACCTG  | 103 |
| R: CCATGAGCGCATCGCAATC |
| *β-actin* | F: CTCCATCATGAAGTGCGACGT | 114 |
| R: GTGATCTCCTTCTGCATCCTGTC |
| stem-loop RT-miR-155-5p | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACCCCCTAT | — |
| miR-155-5p-F | TGCGGTTAATGCTAATTGTGATAGG | — |
| stem-loop RT-miR-429 | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACACGGCAT | — |
| miR-429-F | TGCGGTAATACTGTCTGGTAATGCC | — |

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| Primers | Primer sequences (5’-3’) | Length of production/bp |
| stem-loop RT-miR-215 | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACGTCTGTC | — |
| miR-215-F | TGCGGTTGACCTATGAATTGACAGA | — |
| stem-loop RT-miR-133a | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACCAGCTGG | — |
| miR-133a-F | TGCGGTTGGTCCCCTTCAACCAGCT | — |
| stem-loop RT-miR-9843-3p | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACCCAGAGG | — |
| miR-9843-3p-F | TGCGGTCTGTGAACTAGAAACCTCT | — |
| stem-loop RT-miR-183 | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACCAGTGAA | — |
| miR-183-F | TGCGGTATGGCACTGGTAGAATTCA | — |
| stem-loop RT-miR-370 | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACACCAGGT | — |
| miR-370-F | TGCGGTCCTGCTGGGGTGGAACCTG | — |
| stem-loop RT-miR-128 | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACAAAGAGA | — |
| miR-128-F | TGCGGTCACAGTGAACCGGTCTCTT | — |
| stem-loop RT-miR-142-5p | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACAGTAGTG | — |
| miR-142-5p-F | TGCGGTATAAAGTAGAAAGCACTAC | — |
| stem-loop RT-miR-4332 | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACGGCGCCC | — |
| miR-4332-F | TGCGGTACGGCCGCCGCCGGGCGCC | — |
| stem-loop RT-miR-615 | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACAGAGGGA | — |
| miR-615-F | TGCGGTCCGAGCCTGGGTCTCCCTC | — |
| stem-loop RT-miR-194b | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACTCCACAT | — |
| miR-194b-F | TGCGGTGTAACAGCGACTCCATGTG | — |

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| Primers | Primer sequences (5’-3’) | Length of production/bp |
| stem-loop RT-miR-144 | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACGTACATC | — |
| miR-144-F | TGCGGTACAGTATAGATGATGATGT | — |
| stem-loop RT-miR-21 | GTCGTATCCAGTGCAGGGTCCGAGGTGCACTGGATACGACTCAACAT | — |
| miR-21-F | TGCGGTAGCTTATCAGACTGATGTT | — |
| stem-loop RT-miR-205 | GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACCAGACTCC | — |
| miR-205-F | CTGGAGTCCTTCATTCCACCGG | — |
| Reverse Primer | GTGCAGGGTCCGAGGT | — |
| U6 | F: CGCTTCACGAATTTGCGTGTCAT | 107 |
| R: GCTTCGGCAGCACATATACTAAAAT |