**TABLE S2** Primer sequences used for quantitative real-time PCR

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| **Genes** | **Primer sequences（5’-3’）** | **Gene bank No.** |
| 4-HPPD -F | GTCTTCTCCTCTGCCCTCAA | XM\_021072173.1 |
| 4-HPPD -R | GCAAATTCACCTTCCCAAAC |
| BCATm -F | GCCTGAAGGCGTACAAAGG | XM\_005664688.3 |
| BCATm -R | GATGCACTCCAGCAACTCG |
| 4EBP1-R | GGTTCTGGCTGGCATCTGT | NM\_004095.3 |
| 4EBP1-F | CCGGAAGTTCCTAATGGAGTGT |
| P70S6K-R | TTGGAAGTGGTGCAGAAGCTT | XM\_003131671.4 |
| P70S6K-F | GGAAACAAGTGGAATAGAGCAGATG |
| mTOR-R | CCTTTCGAGATGGCAATGGA | XM\_003127584.6 |
| mTOR-F | TTGTTGCCCCCTATTGTGAAG |
| PI3K-R | AACCACGCTTCAGCAGAAAT | XM\_021102206.1 |
| PI3K-F | CCAGAAACTGGAGAGCTTGG |
| P450SCC-F | TCGGCAACTTGGAATCTGTT | XM\_021098320.1 |
| P450SCC-R | AATGCTGGTGATAGGCAACC |
| CYP19A-F | TGGAGTGCATCGGCATGTAT | NM\_214430.1 |
| CYP19A-R | GTGATGGAATCGGCACAGAC |
| AKT-F | GAGGTCATGGAGCACAGGTT | NM\_001256779.1 |
| AKT-R | CGTCAAAGTACCGAGTGTCG |
| AR-F | ACGAGAAACAGCAGCCTTCA | NM\_214314.2 |
| AR-R | AGCTGCTTAAACCCGGGAAA |
| Cyclinb1-F | TGGTGAATGGACACCAACTC | NM\_001170768.1 |
| Cyclinb1-R | TGCTTTGTAAGCCCTCGATT |
| CDK4-F | GCATCCCAATGTTGTCCG | NM\_001123097.1 |
| CDK4-R | GGGGTGCCTTGTCCAGATA |
| LC3B-F | CCGAACCTTCGAACAGAGAG | NM\_001190290.1 |
| LC3B-R | AGGCTTGGTTAGCATTGAGC |
| P62-F | GGGTTACACCAGCAGTCCA | XM\_003123639.4 |
| P62-R | CCATTCAGAGTACATCCGTTT |
| Agt13-F | CAGCCTCTCCATAGATATTG | XM\_005660951.3 |
| Agt13-R | TGCAGGGTTTCTACAAAG |
| ULK1-F | CGAGAAACATGACCTGGA | XM\_021072525.1 |
| ULK1-R | GGATCTTGATTTCCTTCCC |
| Agt7-F | AGATTGCCTGGTGGGTGGT | XM\_021068402.1 |
| Agt7-R | GGGTGATGCTGGAGGAGTTG |
| β-actin-F | TCTGGCACCACACCTTCT | U07786.1 |
| β-actin-R | TGATCTGGGTCATCTTCTCAC |