**S1 Table: ESR1 sgRNA sequences and primers for real-time PCR.**

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|  | **sgRNA sequence** | |
| ESR1 sgRNA oligo1 | AAATTCAGATAATCGACGCC | |
| ESR1 sgRNA oligo2 | GTGTGCAATGACTATGCTTC | |
| ESR1 sgRNA oligo3 | CTCCGTAAATGCTACGAAGT | |
| **Primer name** | **Forward primer** | **Reverse primer** |
| PGR | ATGTGGCAGATCCCACAGGAGTTT | ACTGGGTTTGACTTCGTAGCCCTT |
| AREG | GTGGTGCTGTCGCTCTTGATA | CCCCAGAAAATGGTTCACGCT |
| PAEP | GAGATCGTTCTGCACAGATGG | CGTTCGCCACCGTATAGTTGAT |
| 18S | AACTTTCGATGGTAGTCGCCG | CCTTGGATGTGGTAGCCGTTT |
| Myc | GGCTCCTGGCAAAAGGTCA | CTGCGTAGTTGTGCTGATGT |
| CDK4 | TCAGCACAGTTCGTGAGGTG | GTCCATCAGCCGGACAACAT |
| CAD | AGTGGTGTTTCAAACCGGCAT | CAGAGGATAGGTGAGCACTAAGA |
| SRD5A1 | CATTGTGCAGTGTATGCTGATGA | GCCACACCACTCCATGATTTC |
| HES1 | CGGACATTCTGGAAATGACA | GTGCGCACCTCGGTATTAAC |