Supplementary File 1. Primers and PCR conditions utilized in this study.

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| **Primer** | **Forward** | **Reverse** | **Reference** |
| **Mouse qRT-PCR primers**  |
| *Arbp* | TCCCACTTACTGAAAAGGTCAAG  | TCCGACTCTTCCTTTGCTTC  | (Hur et al., 2016) |
| *Nono* | GCTCGTGAGAAGCTGGAGAT  | TTCTTGACGTCTCATCAAATCC  | (Plasschaert & Bartolomei, 2014) |
| *Rpl13a* | ATCCCTCCACCCTATGACAA  | GCCCCAGGTAAGCAAACTT  |
| *H19* | GTCTCGAAGAGCTCGGACTG  | ACTGGCAGGCACATCCAC  | (Hur et al., 2016) |
| *Igf2* | CGCTTCAGTTTGTCTGTTCG  | GCAGCACTCTTCCACGATG  | (Weaver et al., 2009) |
| **Mouse allele-specific expression primers** |
| *Igf2* | ATCTGTGACCTCTTGAGCAGG  | GGGTTGTTTAGAGCCAATCAA  | (de Waal et al., 2015) |
| PCR condition: 95°C 2min, (95°C 15s, 58°C 10s, 72°C 20s)x26-30 cycles, 72°C 5min |
| **Mouse genotyping primers** |
| *hIC1* | CCTTCACGGCTTTGACACTC  | GTCAACCGGAGGCACAGTAT  | (Hur et al., 2016) |
| *△H19* | TTGTGGTGAGGCTGTCTTTG  | CCTATTCCCCATTCCATCCT  | This study |
| *△3.8* | CCAACTGAGAGGGCCATAGTGTGAG | CCACAGAGTCAGCATCCAC | (Thorvaldsen et al., 2002) |
| PCR condition: 95°C 2min, (95°C 15s, 58°C 10s, 72°C 20s)x35 cycles, 72°C 2min |
| **gRNA pairs for generating *△H19* allele** (PAM sequences are underlined) |
| Pair A | CTTCAATATAATGCGACTCATGG | AACGTGCGCTGGAACGATACAGG |
| Pair B | CAATATAATGCGACTCATGGGGG | ATCAGTACATGGCCCCGCCGGGG |
| Primers for px335 plasmid amplification | TTAATACGACTCACTATAGGNNNNNNNNNNNNNNNNNNNNGTTTTAGAGCTAGAAATAGC (The underlined nucleotides were substituted with each gRNA sequence excluding the PAM sequence) | AGCACCGACTCGGTGCCACT |