**Supplementary file 2A.** The generation of clone goats by nuclear transfer.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Experiments | Clone embryos | Recipients | Pregancies | Newborn lambs  |
| 1 | 65 | 6 | 1 | 1 |
| 2 | 61 | 6 | 1 | 0 |

**Supplementary file 2B.** Sequence of primers of crRNA-oligo.

|  |  |
| --- | --- |
| Primer | Sequence (5’-3’) |
| 1-top | CACCGACACCATACTTATCTGATA |
| 1-bottom | AAACTATCAGATAAGTATGGTGTC |
| 2-top | CACCGACTACACATTATAGATGACT |
| 2-bottom | AAACAGTCATCTATAATGTGTAGTC |
| 3-top | CACCGTAAGTATCAGATGTAACTGA |
| 3-bottom | AAACTCAGTTACATCTGATACTTAC |
| 4-top | CACCGATGTAACTGATGGTATATT |
| 4-bottom | AAACAATATACCATCAGTTACATC |
| 5-top | CACCGCTAGAAATGTACATACTTTG |
| 5-bottom | AAACCAAAGTATGTACATTTCTAGC |
| 6-top | CACCGATGCCATATCAGATAAGTA |
| 6-bottom | AAACTACTTATCTGATATGGCATC |
| 7-top | CACCGTAGTATGACTCTGGCGTTTG |
| 7-bottom | AAACCAAACGCCAGAGTCATACTAC |
| 8-top | CACCGATTGTCTCCCCCTAAGACTC |
| 8-bottom | AAACGAGTCTTAGGGGGAGACAATC |

**Supplementary file 2C.** The primers of T7E1 assay.

|  |  |  |
| --- | --- | --- |
| Primer | Sequence (5’-3’) | Applicable targets |
| 01-out-U | CACTGGTAAGATGGATCCAACAATCACT | target-1、2、6、7 |
| 03-in-L | CAACTGTCCTTTGCAGAACGATTTC |  |
| 01-in-U | CTATGAAAAGGCCTTCTATGCTCTTAAGG |  |
| 01-in-L | GGAGAATCACCAGCCCAATATACCATC |  |
| 02-out-U | GGCAGCAAGGAATGGTGTCAATC | sgRNA-5 |
| 01-in-L | GGAGAATCACCAGCCCAATATACCATC |  |
| 01-out-U | CACTGGTAAGATGGATCCAACAATCACT |  |
| 02-in-L | GCATTGTCTTTCAGTGTTGCAAGGG |  |
| 01-in-U | CTATGAAAAGGCCTTCTATGCTCTTAAGG | sgRNA-3、4、8 |
| 03-out-L | GGGATTTTGCTTGGATAGGACCA |  |
| 03-in-U | TCTTTCTGGTTCCCGCCACA |  |
| 03-in-L | CAACTGTCCTTTGCAGAACGATTTC |  |

**Supplementary file 2D.** The primers for PCR.

|  |  |
| --- | --- |
| Primer | Sequence (5’-3’) |
| TLR2-U | GCCTCTGA TCAGGCTTCTTC |
| TLR2-L | CCGGTGGCATTCAGAAAGGGA |
| TLR4-U | ATCATCAGCGTGTCGGTTGT |
| TLR4-L | TCAGGTGGAGGTGGTCGCTT |
| U-110 | ATGCCACGTGCTTTGTGGACAGCGTGGGTCTGGGCTGTAATCAGCGTGTTCACGGAAGGAGAGCAGAAACTCATCTCTGAAGAGGATCTGGCCTCTGATCAGGCTTCTTC |
| L-41 | ACAACCGACACGCTGATGATCCGGTGGCATTCAGAAAGGGA |
| T2-U20 | A TGCCACGTGCTTTGTGGAC |
| T4-U20 | TCAGGTGGAGGTGGTCGCTT |
| HA-R-U | GGGTTCA TTTACACAAAACCGAACA TAC |
| HA-R-L | TTAA TGCTGTTGGCTGCAGG |
| HA-L-U | ACTACACATTATAGATGACTGGGCCCAAGCTATGGGGTATCTACTCAATTCA |
| HA-L-L | ATCTATAATGTGTAGTATGACTCTGGCGTT |
| Td-U | ATGGTGAGCAAGGGCGAGGA |
| Td-L | TTAAGATACATTGATGAGTTTGGACAAACCACAACTA |
| Ct-U | CTATGAAAAGGCCTTCTA TGCTCTTAAGG |
| R-U | TTGCTTGGTAAGCGCGGATAT |
| R-L | AGAGACACCGAACCACACGA |
| U | ACAGCCAGTATGAGTGACACC |
| L1 | AGACACCAGTTGGGTCACAAG |
| L | TCCCCCTAAGACTCAGGCATC |
| S | GAGTGAGGCAGGATGGGATT |
| M | GGTCAAGGTAAGGGTCCAACA |
| R | CTTCGAGTATGAGATTGCCCA |
| T | CAGGGGTGAGTATACAAGGC |
| P1-F | TGACTTCCTGTCCTTCACACA |
| P1-R | CTTTACCAGTTCATTCCGCA |
| P2-F | ACGGAAGGAGAGCAGAAAC |
| P2-R | CTGTTGCTGACATAGGTGAT |
| β-actin-F | AGCAAGAGAGGCATCCTGAC |
| β-actin-R | CAGGGGTGTTGAAGGTCTCA |

**Supplementary file 2E.** Primers for qRT-PCR.

|  |  |  |
| --- | --- | --- |
| Gene | Primer sequence (5’-3’) | Product size (bp) |
| IL8 | Forward: AGAGGTGTGCTTAGACCCCAReverse: GGAAGCAATGGAAAAAGGAT | 125 |
| IL6 | Forward: ACACCACCCCAAGCAGACTAReverse: GCCTGATTGAACCCAGATTG | 211 |
| IL1b | Forward: GGCAACCGTACCTGAACCCAReverse: CCACGATGACCGACACCACC | 206 |
| IL10 | Forward: AACCACAAGTCCGACTCAACGAAGReverse: CAGGAAGACCAGGCAACAGAGC | 82 |
| TNF-a | Forward: TCTACTCGCAGGTCCTCTTCReverse: GAAGACCCCTCCCTGGTAGAT | 201 |
| ATG5 | Forward: TTCCAACTTGCTTCACCCTGReverse: ACTTTGTCAGTTACCAACGTC | 109 |
| ATG12 | Forward: TGCTAAAGGCTGTGGGAGACReverse: CAACTGTTCCGAAGCCACAAG | 128 |
| b-actin | Forward: AGCAAGAGAGGCATCCTGACReverse: CAGGGGTGTTGAAGGTCTCA | 214 |