**Table S1.**

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| --- | --- | --- | --- |
| **Primer** | **Fragment** | **Template** | **Sequence of primer (5’-3’)** |
| P1 | 5’-arm | Goat genome DNA | TCTAGAGCGGACCGGTGCTGACTCGAACGTGTAGTGGACTA |
| P2 | 5’-arm | Goat genome DNA | TCTAGAGCCTTAAGCGGTTGACAGCTACCACCACAGTATTC |
| P3 | LSL | PGKneotpAlox2 | CGCTTAAGGCTCTAGAACTAGTGGATCCGGA |
| P4 | LSL | PGKneotpAlox2 | CCCATATG ATCGATAAGCTAGCTTGGGCTGC |
| Psa(F) | SA | Goat genome DNA | TATCGATCATATG GGAGAGCAGCGCACTCAACACTT |
| Psa(R) | SA | Goat genome DNA | CAGTCATTTTCAGCAGGCCTTAT |
| P5 | Kras-TK | pLOX-hKrasG12D-iresTK | ATAAGGCCTGCTGAAAATGACTGAATATAAACTTGTGGTAG |
| P6 | Kras-TK | pLOX-hKrasG12D-iresTK | ATCCACAAAGACCGGTACGTTATACAGGTCGCCGTT |
| P7 | 3’-arm | Goat genome DNA | GCACCGGTCTTTGTGGATGAATATGATCCTACG |
| P8 | 3’-arm | Goat genome DNA | ATTTGCGGCCGCGCAAAGTGAACCTGGGATATACTGT |

The sequence of original primers is shown in black and vector-specific part is in red. The underlined represented the restriction enzyme.