**Table S6: Oligonucleotides used in this study**

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| --- | --- | --- | --- |
| **Sequence** | **Description**  | **Name**  | **AB Number** |
| CAAATCCATCAATGGATCAG | Check presence arg cassette | Arg4\_Rev1 | 251 |
| CTGGTTGGAACAGAAGATTG | Check presence NAT cassette | Nat\_Fw | 857 |
| ACTACCTGTTTCTGAACTAT | Check *MEC3* gene deletion | mec3\_fw | 885 |
| CATCAGTATCATCTAGCAAG |  | mec3\_rv | 886 |
| TGGAATCGAAGCAAGAGGTA | Check *RAD18* gene deletion | rad18\_fw | 891 |
| ACCAAACGACGGTTGATGTT |  | rad 18 rv | 892 |
| ACTCATCACTGCGATATCAG | Check *ULP2* gene deletion | Ulp2\_Fw  | 905 |
| AGCTTCCATATGAGGAATCAA |  | Ulp2\_Rv | 906 |
| ATGGTTCCGTCCTCATATGC | Check *GRR1* gene deletion | grr1\_fw | 913 |
| ATGCATCTGTTATCTGCATACA |  | grr1\_rv | 914 |
| GAAAAAAAAACAATACCAGCCATGATGAAGATTGCTTACACTATTTCTTCTTTATAACTGGACGTTACTAAgttttcccagtcacgacgtt | *ULP2* gene deletion with Arg cassette  | Ulp2\_Arg\_Fw | 1032 |
| CATTTTTAGGTATCAAGTTTTGAAAAAAGAAAACAACAGTGGATGTGATATATATATAATCTTGTACATACAATTAGtggaattgtgagcggataa |  | Ulp2\_arg\_Rv | 1033 |
| ATTGGAAGAGGAATTGGAGA | Check *ULP2* gene deletion  | Ulp2\_check\_Rv | 1034 |
| GGGGAAAAAAAAACAATACCAGCCATGATGAAGATTGCTTACACTATTTCTTCTTTATAACTGGACGTTACTAAgtaaaacgacggccagtgaa | *ULP2* gene deletion with NAT cassette | Ulp2\_nat\_Fw | 1038 |
| GGTATCAAGTTTTGAAAAAAGAAAACAACAGTGGATGTGATATATATATAATCTTGTACATACAATTAtgcatcaattgacgttgataccac |  | Ulp2\_nat\_Rv | 1039 |
| GTATAGTCAAAATGATATGAAAATAATTCGTAGAAGAATGGTCTATGAAATTTTAGATAATCGTTTACTAGATcggatccccgggttaattaa | HA tagging of *ULP2* gene | Ulp2\_HA\_Nat\_Fw | 1042 |
| TAGGTATCAAGTTTTGAAAAAAGAAAACAACAGTGGATGTGATATATATATAATCTTGTACATACAATTAgtaaaacgacggccagtgaattc |  | Ulp2\_HA\_Nat\_Rev | 1043 |
| CGTCCTTTCAAGTATTGTAACTGCCACGGACCAGACGAATGTTGAACTTTTGAAAATAAGATTAGAAAATgtaaaacgacggccagtgaat | *ULP1* gene deletion with NAT cassette | Ulp1\_nat\_fw | 1054 |
| TTACTATTGGATAAATACTACAGATAATTCTGATTGCTAGAATGTAGATATATATATAAATAAATTTAGTtgcatcaattgacgttgatac |  | Ulp1\_nat\_Rv | 1055 |
| CAAGATTGCAGATGCTTGAG | Check *ULP1* gene deletion | Ulp1\_check\_Rv | 1056 |
| GTCCTTTCAAGTATTGTAACTGCCACGGACCAGACGAATGTTGAACTTTTGAAAATAAGATTAGAAAATgttttcccagtcacgacgttgt | *ULP1* gene deletion with arg cassette | Ulp1\_arg\_Fw | 1057 |
| TTACTATTGGATAAATACTACAGATAATTCTGATTGCTAGAATGTAGATATATATATAAATAAATTTAGTgtggaattgtgagcggataac |  | Ulp1\_arg\_rv | 1058 |