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| **Primer names**  | **Sequence** **(5'—3')** | **Plasmid DNA/primers**  |
| OSB01-FP  | GC**GGATCC**ATGAATAGATGGGTAGAGAAGTG  | pET28a\_ScREV7,  pET28a\_ScREV7-C1  |
| OSB02-RP  | GC**AAGCTT**TTCTTCAAATTTCATTTTTGCAC     | pET28a\_ScREV7  |
| OSB03-FP   |  **CATATG**ATGAATAGATGGGTAGAGAAGTG | pGBKT7\_ScREV7,  pGADT7\_ScREV7  |
| OSB04-RP    | **GGATCC**TTCTTCAAATTTCATTTTTGCAC  | pGBKT7\_ScREV7, pGADT7\_ScREV7  |
| OSB05-FP   | ATGCCT**CATATG**ATGGACTATCCTGATCCAGACACACAATAAGG  | pGADT7\_ScMRE11  |
| MRE11\_RP  | ATGCCT**GAATTC**CTATTTTCTTTTCTTAGGAAGGAGGACTTCC  | pGADT7\_ScMRE11  |
| OSB11-FP  | ATCCAAGAAGAAAAAAAAAATAGTAATCGTTGCGTCAGCTTTATGCGTACGCTGCAGGTCGAC  | REV7 Knockout  |
| OSB12-RP  | ACATTTAATTTTAATTCCATTCTTCAAATTTCATTTTTGCACTTAATCGATGAATTCGAGCTCG  | REV7 Knockout  |
| OSB13-FP  | ATATGCATATACGTCTACACTAC  | REV7 Knockout   |
| OSB14-RP  | CTGCAGCGAGGAGCCGTAAT (KANB)  | REV7 Knockout  |
| OSB33-FP  | CGC**GGATCC**ATGAGCGCTATCTATAAATTATC  | pESUMO\_ScRAD50  |
| OSB34-RP  | CCG**CTCGAG**TCAATAAGTGACTCTGTTAATATC  | pESUMO\_ScRAD50            & pGADT7\_ScRAD50  |
| OSB35-FP  | CCG**GAATTC**ATGAGCGCTATCTATAAATTATC   | pGADT7\_ScRAD50  |
| OSB36-FP  | GGAATTC**CATATG**ATGTGGGTAGTACGATACCAG | pGADT7\_ScXRS2  |
| OSB37-RP  | CG**GGATCC**TTATCCTTTTCTTCTTTTGAA | pGADT7\_ScXRS2  |
| OSB52-FP  | ATTGACGCAAGTTGTACCTGCTCAGATCCGATAAAACTCGACTATGCGTACGCTGCAGGTCGAC | MRE11 Knockout  |
| OSB53-RP  | TGGTTATAAATAGGATATAATATAATATAGGGATCAAGTACAACTAATCGATGAATTCGAGCTCG  | MRE11 Knockout  |
| OSB54-FP  | AAGGCATCTACAAATCTCATTG  | MRE11 Knockout  |
| OSB133-FP  | AGGCAAAAATCACAAATTGAGTGGGTCGATATTAACAGAGTCACTTATCGTACGCTGCAGGTCGAC  | RAD50 Knockout  |
| OSB075-RP  | TAATTAATCAATCAAAGTCTATCCCTTCGTAGATATTATGGGGTCTTTATCGATGAATTCGAGCTCG  | RAD50 Knockout  |
| OSB076-RP  | TCCTTGGTTAACAACGGTG  | RAD50 Knockout  |
| OSB134-FP  | ACGACGACGATGACGACGGTCCGAAGTTTACGTTCAAAAGAAGAAAAGGACGTACGCTGCAGGTCGAC | XRS2 Knockout  |
| OSB078-RP  | TGCAAAATATAATTTAATGAAATTGGAAATACTCGGAAAATTTATCATTAATCGATGAATTCGAGCTCG  | XRS2 Knockout  |
| OSB079-RP  | TTGGAGTATTCAAAGAGGCTAC  | XRS2 Knockout  |
|   |   |   |
| OSB55-FP  | TTCTCAAAATAAATCGATACTGCATTTCTAGGCATATCCAGCGATGCGTACGCTGCAGGTCGAC  | REV1 Knockout  |
| OSB56-FP  | AACTGCGTGTTTACTGTATGCTGAAATGTTTTTTTTTTTTTAATTCAATCGATGAATTCGAGCTCG | REV1 Knockout  |
| OSB57-FP  | TTTACACAGACCAAGACGG | REV1 Knockout  |
| OSB58-FP  | TCAATACAAAACTACAAGTTGTGGCGAAATAAAATGTTTGGAAATGCGTACGCTGCAGGTCGAC | REV3 Knockout  |
| OSB59-RP  | ACAAATAACTACTCATCATTTTGCGAGACATATCTGTGTCTAGATTAATCGATGAATTCGAGCTCG | REV3 Knockout  |
| OSB60-FP  | ATCCCTGTGGTCTCCTACC  | REV3 Knockout  |
| OSB116-FP  | ATCCAAGAAGAAAAAAAAAATAGTAATCGTTGCGTCAGCTTTATGAATAGATGGGTAGAGAAGTG  | *rev7-c1* truncation (rev7-c1-9MYC-hphNT1)  |
| OSB117-RP  | GTCGACCTGCAGCGTACGGACTAAAGAAGTGAGTTTTATTTTAGG | *rev7-c1* truncation (rev7-c1-9MYC-hphNT1)  |
| OSB118-FP  | CCTAAAATAAAACTCACTTCTTTAGTCCGTACGCTGCAGGTCGAC  | *rev7-c1* truncation (rev7-c1-9MYC-hphNT1)  |
| OSB070-RP  | TACTTAGAGACATTTAATTTTAATTCCATTCTTCAAATTTCATTTTTGCACTTAATCGATGAATTCGAGCTCG | *rev7-c1* truncation (rev7-c1-9MYC-hphNT1)  |
| OSB122-FP  | ATCCAAGAAGAAAAAAAAAATAGTAATCGTTGCGTCAGCTTTATGGGTTCTGACGTGGGGCC  | *rev7-42 aa* truncation (rev7-42-3MYC-KANMX)  |
| OSB120-RP  | GTCGACCTGCAGCGTACGAAACAAAGATCCAAAAATGCTC  | *rev7-42 aa* truncation (rev7-42-3MYC-KANMX)  |
| OSB121-FP  | GAGCATTTTTGGATCTTTGTTTCGTACGCTGCAGGTCGAC  | *rev7-42 aa* truncation (rev7-42-3MYC-KANMX)  |
| OSB61-FP  | GGAATTC**CATATG**TCATTCACCTTGCCGCAGTTC | pGBKT7\_REV7-N1  |
| OSB62-FP  | GGAATTC**CATATG**ACCCACGTTTACAGATTTTCC  | pGBKT7\_REV7-N2  |
| OSB63-FP  | GGAATTC**CATATG**TTGGAACTAGGACATAAGTTGG  | pGBKT7\_REV7-N3  |
| OSB64-RP  | CG**GGATCC**TTAGACTAAAGAAGTGAGTTTTATTTTAGG  | pGBKT7\_REV7-C1  |
| OSB65-RP  | CG**GGATCC**TTATTCTGCTTTTTCCTCCAAACTATC | pGBKT7\_REV7-C2  |
| OSB66-RP  | CG**GGATCC**TTACAATTCGATCGCATTAATAACTGC | pGBKT7\_REV7-C3  |
| OSB80-FP  | CG**GGATCC**ATGTCGAAAGCTACATATAAG | pFAT10\_ura3-G4  |
| OSB81-RP  | **CCC**GGT**CCCCCC**AACGACAACA**CCC**AATCAACCAATCGTAACCTTC  | pFAT10\_ura3-G4  |
| OSB82-FP  | **GGG**TGTTGTCGTT**GGGGGG**ACC**GGG**ATGACACCCGGTGTGGG  | pFAT10\_ura3-G4  |
| OSB83-RP  | AC**ATGCAT**GCTTAGTTTTGCTGGCCGCATC  | pFAT10\_ura3-G4  |
| OSB129-RP  | CTCATAGCATCCAACGACAACACGCAATCAACCAATCGTAACCTTC | pFAT10\_ura3-G4 mutant  |
| OSB130-FP  | GCGTGTTGTCGTTGGATGCTATGAGATGACACCCGGTGTGGG | pFAT10\_ura3-G4 mutant  |
| OSB125-RP  | GC**AAGCTT**TTAGACTAAAGAAGTGAGTTTTATTTTAGG  | pET28\_ScRev7-C1  |
| REV7GFP-FP  | GC**TCTAGA**ATGAATAGATGGGTAGAGAAG   | pPROEX\_ScREV7-eGFP  |
| REV7GFP-RP   | CCG**CTCGAG**GTTAATTAACCCGGGGATCCGAAACAAAGATCCAAAAATGC  | pPROEX\_ScREV7-eGFP  |
| OSB150-FP | ATGCCT**CATATG**ATGGTGACTGGTGAAG | pGADT7-SAE2 |
| OSB151-RP | ATGCCT**GAATTC**TTAACATCTTAGCATATA | pGADT7-SAE2 |
| OSB152-RP | CCG**CTCGAG**GTTAATTAACCCGGGGATCCGGACTAAAGAAGTGAGTTTTATTTTAGG | pPROEX\_ScREV7C1-eGFP |