**Supplementary File 5: Primers used in this study**

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| **Primer** | **Sequence** |
| *mlaC::kan**recombineering\_F* | 5’-GGTGGTGGCGCAGGTAAGGTTGCCGCTGGTTCATCCTCAGCAGAAGAAAAAGCTCCTGCAAGTACTGACAGCAGTGCACAGCCGTCATTTGTTGAGTAAGAGATTATTTGAAGGAGTGGTTCCAGAGCGATTGTGTAGGCTGGAGCTGCTTCG |
| *mlaC::kan**recombineering\_R* | 5’- CAATTTTGCCTGAAACAACTAACTCTTGGTTAAGATACTGAACCACTCTTCACCTACTTATTTTTGTTTATTCTGATTAACAGCAGCATCTGCATCAGGTTGGAACGTAGCAATTGCTTTATTCAATATCCTCCTTAGTTCCTATTCCG |
| *mlaF::kan**recombineering\_F* | 5’-TCGATCAATAAATTTCTTTTCAAAATCTAGCTCATATTCCTATATTAGCTTGTTTTGCTTTTGTCAAAATTACAACAAGATTCCCAAAATTCAGTGTTATAGTATGCGGGCATAAAAGTGCAGGAAGCGATTGTGTAGGCTGGAGCTGCTTCG |
| *mlaF::kan**recombineering\_R* | 5’- GACGAAACGTCCAAAACCGCCCGCTGAAGGTAATGAAAAAATAATCTGTAAGAGCATCAGTGCCGCAACACCAATCCCTCGAATCCGCTCAATAACGAGTCTACCTAACCAGGCAATCGTATTCATATCCTCCTTAGTTCCTATTCCG |
| *obgE::kan**recombineering\_F* | 5’-TTTATATCCTGATAAAAAGAAATAAAATAAGCAGCAGGAAAGTAGAATTCTCTCGATTTTCTATTCGAGAATTTTCTGAAAATATGGCAGAATAGGCGGTTTTAGAGTTTTTAGAGGATTGGCAAAGCGATTGTGTAGGCTGGAGCTGCTTCG |
| *obgE::kan**recombineering\_R* | 5’ -TCCAGATCTAGACCCTGCCCATTTGCCGTGAGTAAAGATGATCCGATTTTAACAACGATTCGTTTACACTCACTGAGCTTACGTTGCCCATCGACCACTTCTATCATGTTTTCCTCGGTTTTTTATATCCTCCTTAGTTCCTATTCCG |
| *obgE-pMMB\_F* | 5’ -CCG**GAATTC**ATGCGCTTTGTTGATGAAGC |
| *obgE-pMMB\_R* | 5’ - CGC**GGATCC**TTAATCACGAACGTAGATGCTTTC |