**Table S2**. Primers, amplicons, and calibrator plasmids used for plasmid copy number determination.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Primer# | Name | Sequence/Description | Target | Product |
| *qPCR oligos* | |  |  |  |
| #10071 | pZM32\_f | GGAATGATGCTGTGCTGTCC | pZM32\_amp2b | 141 bp |
| #10072 | pZM32\_r | CTTTAAGCTTTGTCTTTCTCACG | pZM32\_amp2b | 141 bp |
| #10055 | pZM33\_f | CAAAGTCCACCAGCGAGAC | pZM33\_amp3 | 138 bp |
| #10056 | pZM33\_r | ACGCTTCACCAGTTCTTCTG | pZM33\_amp3 | 138 bp |
| #10057 | pZM36\_f | CACGAGCTTTCTGATTGCTC | pZM36/41\_amp1 | 91 bp |
| #10058 | pZM36\_r | AAGGCTTGGCAATGACGAAG | pZM36/41\_amp1 | 91 bp |
| #10059 | pZM39\_f | CAATCGCAAAGCCTCGTTTC | pZM39\_amp3 | 99 bp |
| #10060 | pZM39\_r | CGGTGGGTGTCTCGAATAAC | pZM39\_amp3 | 99 bp |
| #10063 | Zmter\_f | ATTACAGGAGCAGAAAACGAATG | *Z. mobilis ter* (Zm4) | 157 bp |
| #10064 | Zmter\_r | AACGGAATGGCGTGGATTTC | *Z. mobilis ter* (Zm4) | 157 bp |
| #10075 | Zmori\_f | CGGCCAGACGAATGTGACC | *Z. mobilis ori* (Zm4) | 92 bp |
| #10076 | Zmori\_r | AAATTGGTAGGTGCGGCAAC | *Z. mobilis ori* (Zm4) | 92 bp |
| *Gibson assembly oligos* | | |  |  |
| #10039 | 32gib\_f | aaagaaccaCTGTCAGCTATAATGCTAAAG | pZM32\_amp2b\_gibson | pJG023\* |
| #10040 | 32gib\_r | ttgcatgcctgcaggGATTACTCAATGTCAGAATAGC | pZM32\_amp2b\_gibson | pJG023 |
| #10042 | 33gib\_f | aaagaaccaAGAGGCCCCGAAAGCCTG | pZM33\_amp3\_gibson | pJG024 |
| #10043 | 33gib\_r | ttgcatgcctgcaggTGTGCAGAACATGAGATTACGGC | pZM33\_amp3\_gibson | pJG024 |
| #10080 | 36gib\_f | aaagaaccaGCCCAGAGCACGAGCTTT | pZM36/41\_amp1\_gibson | pJG025 |
| #10081 | 36gib\_r | ttgcatgcctgcaggAGCAATGCGACTGATCAGATC | pZM36/41\_amp1\_gibson | pJG025 |
| #10106 | 39gib\_f | aaagaaccaGTTCGGGTGTCATATAGG | pZM39\_amp3\_gibson | pJG026 |
| #10107 | 39gib\_r | ttgcatgcctgcaggGATGCTTGTAATTATATAAAATACAATATTAC | pZM39\_amp3\_gibson | pJG026 |
| #10051 | origib\_f | aaagaaccaGCGTATGAAAAATTTTATTAAAAAAGGAG | *Zmo ori*\_gibson | pJG027 |
| #10052 | origib\_r | ttgcatgcctgcaggGGCCAATTTTGAATCCCTTATTAAAAC | *Zmo ori*\_gibson | pJG027 |
| #10037 | pUC19\_f | agctcggtacccgggCAAGCAGAGTAAGACATTATAAAAAG | pUC19\_gibson | pJG023-027 |
| #10038 | pUC32\_r | gctgacagTGGTTCTTTGGGCTGAAATAG | pUC19\_gibson | pJG023 |
| #10041 | pUC33\_r | gggcctctTGGTTCTTTGGGCTGAAATAG | pUC19\_gibson | pJG024 |
| #10079 | pUC36\_r | ctctgggcTGGTTCTTTGGGCTGAAATAG | pUC19\_gibson | pJG025 |
| #10105 | pUC39\_r | acccgaacTGGTTCTTTGGGCTGAAATAG | pUC19\_gibson | pJG026 |
| #10050 | pUCori\_r | tcatacgcTGGTTCTTTGGGCTGAAATAG | pUC19\_gibson | pJG027 |
| *Calibrator Plasmids* | | |  |  |
| #5023 | pJG023 | pUC19-derived calibrator plasmid with adjacent *ter* and p32 segments | | |
| #5024 | pJG024 | pUC19-derived calibrator plasmid with adjacent *ter* and p33 segments | | |
| #5025 | pJG025 | pUC19-derived calibrator plasmid with adjacent *ter* and p36/41 segments | | |
| #5026 | pJG026 | pUC19-derived calibrator plasmid with adjacent *ter* and p39 segments | | |
| #5027 | pJG027 | pUC19-derived calibrator plasmid with adjacent *ter* and *ori* segments | | |