

**Table S10. Oligonucleotides**

Primer	Sequence <sup>a</sup>	Purpose, source, or reference <sup>b</sup>
oMC44	CTAGCTGCTCCTATGTCTCACATC	<i>rpoC</i> (CD0067) qPCR <sup>10</sup>
oMC45	CCAGTCTCTCCTGGATCAACTA	<i>rpoC</i> (CD0067) qPCR <sup>10</sup>
oMC112	GGCAAATGTAAGATTTTCGTACTIONA	<i>tcdB</i> (CD0660) qPCR <sup>11</sup>
oMC113	TCGACTACAGTATTCTCTGAC	<i>tcdB</i> (CD0660) qPCR <sup>11</sup>
oMC152	GTTATGGAAGTCAAGGACATGCAC	<i>ilvC</i> (CD1565) qPCR <sup>12</sup>
oMC153	GCTTCTGCTACACTCTTAACTTCA	<i>ilvC</i> (CD1565) qPCR <sup>12</sup>
oMC178	CTTGAGTTAAATCTTGTGCAGTCA	<i>csfU</i> (CD1887) qPCR
oMC179	GGTGATAATAGTGAATGATGCTCGG	<i>csfU</i> (CD1887) qPCR
oMC189	TGCCTCTTGTAAGAGTATAGCA	<i>sigD</i> (CD0266) qPCR <sup>11</sup>
oMC190	GCATCAATCAATCCAATGACTCCAC	<i>sigD</i> (CD0266) qPCR <sup>11</sup>
oMC242	TCCACAAGGAGCTGTATATGGT	<i>cdd4</i> (CD0667) qPCR
oMC243	GTGGGTTTTAGCAAGTCCAAGAA	<i>cdd4</i> (CD0667) qPCR
oMC547	TGGATAGGTGGAGAAGTCAGT	<i>tcdA</i> (CD0663) qPCR <sup>11</sup>
oMC548	GCTGTAATGCTTCAGTGGTAGA	<i>tcdA</i> (CD0663) qPCR <sup>11</sup>
oMC683	GTATCTGACAACATCAATTGCCTAAA	CD0341 qPCR <sup>11</sup>
oMC684	TCAGCTTGAGATTCAATTTCTTCATT	CD0341 qPCR <sup>11</sup>
oMC815	TGGATTCTCTTAAGGAAGAACAATACTTTA	<i>sigT</i> (CD0677) qPCR <sup>13</sup>
oMC816	CCTTAACTTCATCTACTGAATAACCTTCA	<i>sigT</i> (CD0677) qPCR <sup>13</sup>
oMC1249	GTCGAGGATCCGATGACAAGTTATTGGAATACACAG	<i>Pspo0A</i> amplification
oMC1290	GAATGGGAACCTTGATAATAACAAACC	check CD1617-1618 co-transcription ; <i>clnR</i> (CD1617) qPCR
oMC1291	AAGTTCTGTTAGAGCCTTTTGC	check CD1616-1617 co-transcription; <i>clnR</i> (CD1617) qPCR
oMC1292	AGGTGTAAACAAGAGTTATGGAAC	check CD1618-1619 co-transcription ; <i>clnA</i> (CD1618) qPCR
oMC1293	TCTATGGATGGTTTCATTCCATTTATC	check CD1617-1618 co-transcription ; <i>clnA</i> (CD1618) qPCR
oMC1294	AAGCAAGTGGGAAGAATATTTATACCG	<i>clnB</i> (CD1619) qPCR
oMC1295	ACATTAATAACCTTCATCCCCC	<i>clnB</i> (CD1619) qPCR
oMC1297	CACTGCAGTTTTATCCATTTTATAATTC	screening for Targetron insertion in <i>clnR</i>
oMC1310	AAAAGCTTTTGCACCCACGTCGATCGTGAACCGCATCT TCTGGTGCGCCCAGATAGGGT	<i>clnR</i> (CD1617) intron retargeting
oMC1311	CAGATTGTACAAATGTGGTGATAACAGATAAGTCCTTCT GCTTAACTTACCTTTCTTTGT	<i>clnR</i> (CD1617) intron retargeting
oMC1312	CGCAAGTTTCTAATTTTCGGTTTGCGGTCGATAGAGGAAA GTGTCT	<i>clnR</i> (CD1617) intron retargeting
oMC1319	AAAAGCTTTTGCACCCACGTCGATCGTGAAAAAATAGT TTCAGTGCGCCCAGATAGGGT	<i>clnA</i> (CD1618) intron retargeting
oMC1320	CAGATTGTACAAATGTGGTGATAACAGATAAGTCGTTTC ATATAACTTACCTTTCTTTGT	<i>clnA</i> (CD1618) intron retargeting
oMC1321	CGCAAGTTTCTAATTTTCGGTTATTTTTTCGATAGAGGAAAG TGTCT	<i>clnA</i> (CD1618) intron retargeting
oMC1383	GTAGAAGGAGCAGAGGTTGTTT	<i>grdA</i> (CD2352) qPCR
oMC1384	TCAGCAGCATCTTTAACTCTGT	<i>grdA</i> (CD2352) qPCR
oMC1393	TGAAACCATGAATCTTAGAAGCATAAAC	<i>vanZ</i> (CD1240) qPCR
oMC1394	CACATATATCCCAAATGGTACAAATATAGC	<i>vanZ</i> (CD1240) qPCR
oMC1410	GTGGGATCCGCTAAAACCTTATTACAG	<i>clnA</i> (CD1618) cloning
oMC1416	GTGGGATCCAGAAGAACAGTTTAA	<i>PclnR</i> cloning
oMC1427	GTTTGGAAAGCCAATGCCAA	check CD1616-1617 co-transcription
oMC1467	TAGCAGAAGATGCGGAAGTTAAT	<i>clnR</i> (CD1617) qPCR
oMC1473	GTTACAAATCTTCCTTTAGTTCTCTGAC	<i>clnR</i> (CD1617) qPCR
oMC1476	GCGCATGCATTACTCAAAGATAGCT	<i>clnRAB</i> cloning
oMC1483	CTGGGTCAACACCACCTATAG	verify <i>clnA</i> (CD1618) disruption
oMC1493	GTTAGAAGAGCAAATGAGATGATTAAGC	<i>clnA</i> (CD1618) qPCR
oMC1614	GTGTACTCCACCAGCAAAGA	<i>cstA</i> (CD2600) qPCR
oMC1615	GCAGGGTTAGGTCCGATATTT	<i>cstA</i> (CD2600) qPCR
oMC1684	GCGGAATTCCTAAAAAGTAATTGACATATACTTTG	<i>PclnR</i> cloning
oMC1689	GTGGGATCCGGCGCCATGCATCACCATCACCATCACAT GGAATGGGAACCTTGATAATAAC	<i>clnR</i> cloning with His-tag

oMC1690	GTGGGCGCCGTTTCATGCCTCCTTATTA	<i>PclnR</i> cloning
oMC1691	FAM-CTAAAAAGTAATTGACATATACTTTG	<i>PclnR</i> amplification with fluorescein
oMC1692	FAM-CATGCCTCCTTATTATATTATTG	<i>PclnR</i> amplification with fluorescein
oMC1700	FAM-AGTTTGTGCAGTTTCTGAA	<i>PiorA</i> amplification with fluorescein
oMC1701	FAM-ACTACAATTATTAATTCATAGATG	<i>PiorA</i> amplification with fluorescein
oMC1702	FAM-CTCCAAAATACTACATAAAATAA	<i>PmtIA</i> amplification with fluorescein
oMC1703	FAM-TATATCGATATGATCCCTTTTG	<i>PmtIA</i> amplification with fluorescein
oMC1704	FAM-CAAATTAATAAAGCAATTTATA	<i>PCD1606</i> amplification with fluorescein
oMC1705	FAM-CTAGTGTATTAATACGATAGTAC	<i>PCD1606</i> amplification with fluorescein
oMC1706	FAM-TTGTTTAAGTATTAATTATGAGT	<i>PcsfU</i> amplification with fluorescein
oMC1707	FAM-CGTCATTATATATAACGATTTATAC	<i>PcsfU</i> amplification with fluorescein
oMC1710	FAM-ATGTTTCATCCCCTTTTTTAATC	<i>Pcdd4/CD0668</i> amplification with fluorescein
oMC1711	FAM-CACCCTCCTTTAGTATACC	<i>Pcdd4/CD0668</i> amplification with fluorescein
oMC1712	FAM-CAATATTAATTTATTTTTAAAAATAG	<i>PtcdA</i> amplification with fluorescein
oMC1713	FAM-AGTATTATTTTTGATAATAAATC	<i>PtcdA</i> amplification with fluorescein
oMC1714	FAM-CTTGTAATAAAAATAAGATTTAAGTG	<i>PgrdE</i> amplification with fluorescein
oMC1715	FAM-CACCCTCCTGTTATTTAATTTG	<i>PgrdE</i> amplification with fluorescein
oMC1716	CACCAATAATTTTATTATTTTGTATTATTG	<i>Pspo0A</i> amplification
oMC1735	AGAAAGATATGAAATACTACAATAGC	<i>PvanZ</i> amplification with fluorescein
oMC1736	TAGATTTTCAATTTATTACCTCCTTAC	<i>PvanZ</i> amplification with fluorescein
oMC1737	AGtGaattcgagctcggtaccgggggatccCAGAAGAACAGTTTAAAC CTTTTAAAAG	<i>PclnR</i> Gibson assembly
oMC1738	CATTCATGTGATGGTGATGGTGATGCATggcgccTTCATG CCTCCTTATTATATTAttg	<i>PclnR</i> Gibson assembly
oMC1739	CTCCAAAATACTACATAAAATAA	<i>PmtIA</i> amplification
oMC1740	TATATCGATATGATCCCTTTTG	<i>PmtIA</i> amplification
oMC1741	CAAATTAATAAAGCAATTTATA	<i>PCD1606</i> amplification
oMC1742	CTAGTGTATTAATACGATAGTAC	<i>PCD1606</i> amplification
oMC1743	TTGTTTAAGTATTAATTATGAGT	<i>PcsfU</i> amplification
oMC1744	CGTCATTATATATAACGATTTATAC	<i>PcsfU</i> amplification
oMC1745	ATGTTTCATCCCCTTTTTTAATC	<i>Pcdd4/CD0668</i> amplification
oMC1746	CACCCTCCTTTAGTATACC	<i>Pcdd4/CD0668</i> amplification
oMC1717	TTGAGTACTATAGGTGACCCAATGA	<i>mtIA (CD2334)</i> qPCR
oMC1718	CCTCTTTGTCCTGCTATTGCTTTA	<i>mtIA (CD2334)</i> qPCR
oMC1719	GGTAAATGGTGGTATGGTACTTATT	<i>iorA (CD2381)</i> qPCR
oMC1720	AGCTTCTTGACTAGTTGATGGTTC	<i>iorA (CD2381)</i> qPCR
oMC1754	GGAATAATAGTTATGACTCATGGGAGTT	<i>CD0284</i> qPCR
oMC1755	AGTTTAATTGCTGCTGTTCTTTCTG	<i>CD0284</i> qPCR
tcdRqF	AGCAAGAAATAACTCAGTAGATGATT	<i>tcdR (CD0659)</i> qPCR <sup>14</sup>
tcdRqR	TTATTAAATCTGTTTCTCCCTCTTCA	<i>tcdR (CD0659)</i> qPCR <sup>14</sup>

<sup>a</sup> All sequences are listed 5' to 3'. Underlined sequences denote restriction sites or intron retarget sites.

<sup>b</sup> Abbreviations: qPCR, quantitative PCR