**Table S1 Primers used for detection mcr genes in this study**

|  |  |  |  |
| --- | --- | --- | --- |
| Prime name | Sequence (5'-3') | size(bp) | Reference |
| mcr-1\_fw | AGTCCGTTTGTTCTTGTGGC | 320 | Rebelo et al., 2017 |
| mcr-1\_rev | AGATCCTTGGTCTCGGCTTG |
| mcr-2-fw | CAAGTGTGTTGGTCGCAGTT | 715 | Rebelo et al., 2017 |
| mcr-2-rev | TCTAGCCCGACAAGCATACC |
| mcr-3-fw | AAATAAAAATTGTTCCGCTTATG | 929 | Rebelo et al., 2017 |
| mcr-3-rev | AATGGAGATCCCCGTTTTT |
| mcr-4\_fw | TCACTTTCATCACTGCGTTG | 1116 | Rebelo et al., 2017 |
| mcr-4\_rev | TTGGTCCATGACTACCAATG |
| mcr-5\_fw | ATGCGGTTGTCTGCATTTATC | 1644 | Rebelo et al., 2017 |
| mcr-5\_rev | TCATTGTGGTTGTCCTTTTCTG |
| mcr-6\_fw | GTCCGGTCAATCCCTATCTGT | 556 | Borowiak et al., 2020 |
| mcr-6\_rev | ATCACGGGATTGACATAGCTAC |
| mcr-7\_fw | TGCTCAAGCCCTTCTTTTCGT | 892 | Yang et al., 2018 |
| mcr-7\_rev | TTCATCTGCGCCACCTCGT |
| mcr-8\_fw | AACCGCCAGAGCACAGAATT | 667 | Wang et al., 2018 |
| mcr-8\_rev | TTCCCCCAGCGATTCTCCAT |