|  |  |  |  |
| --- | --- | --- | --- |
| Target gene | Sequence (5’-3’) | Size (bp) | Reference |
| *rmpA*  | Forward | ACTGGGCTACCTCTGCTTCA | 535 | (Liu and Guo, 2019) |
| Reverse | CTTGCATGAGCCATCTTTCA |
| *rmpA2* | Forward | CTTTATGTGCAATAAG-GATGTT | 452 |  (Liu and Guo, 2019) |
| Reverse | CCTCCTGGAGAGTAAGCATT |
| *iucA* | Forward | AATCAATGGCTATTCCCGCTG | 239 | (Sanikhani et al., 2021) |
| Reverse | CGCTTCACTTCTTTCACTGACAGG |
| *peg-344* | Forward | CTTGAAACTATCCCTCCAGTC | 508 | (Russo et al., 2018) |
| Reverse | CCAGCGAAAGAATAACCCC |
| *magA* | Forward | GGTGCTCTTTACATCATTGC | 1282 | (Liu and Guo, 2019) |
| Reverse | GCAATGGCCATTTGCGTTAG |
| K1 | Forward | GTAGGTATTGCAAGCCATGC | 1048 | (Liu and Guo, 2019) |
| Reverse | GCCCAGGTTAATGAATCCGT |
| K2 | Forward | GGAGCCATTTGAATTCGGTG | 1112 | (Liu and Guo, 2019) |
| Reverse | TCCCTAGCACTGGCTTAAGT |
| *gapA* | Forward | TGAAATATG ACTCCACTCACGG | 636 | (Diancourt et al., 2005) |
| Reverse | CTTCAGAAGCGGCTTTGATGGCTT |

**Table 1. Primers used for the optimization of multiplex PCR assay**