**Table S1** **Oligonucleotide primers used in this study**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene** | **Primer sequences(5'➔3')** | **Annealing**  **temperature(°C)** | **Product**  **size (bp)** | **References** |
| *csuE* | TTGTGGGAATCGGGGTGTTCTTTG | 60 | 103 | This study |
|  | GAGAGTGAACCAAGCGAGTCTGC |  |  |  |
| *bfmR* | GTCGTGAAGTTCGCCCACACTATC | 60 | 94 | This study |
|  | GCACCCATTTCCAGACCAAGTACC |  |  |  |
| *bfmS* | GCAGAGCGTCGTTACCTTCACC | 60 | 92 | This study |
|  | ATACCGCCCGTAATCCGAACTTTG |  |  |  |
| *abaI* | AGACTACTACCCACCACACAACCC | 60 | 148 | This study |
|  | GACTGCTAGAGGAAGGCGGTTTTG |  |  |  |
| *bap* | AACGACAGCACACCAGCACTTAC | 60 | 106 | This study |
|  | TGCCGTCACCATTGTTCACTGC |  |  |  |
| 16*S rRNA* | TACACACCGCCCGTCACACC | 60 | 119 | This study |
|  | CGGCTACCTTGTTACGACTTCACC |  |  |  |

Primers were designed by Sangon Biotech (Shanghai)