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| **Additional file 1 Primers used in this study** |
| **Primer** | **Sequence 5’-3’** | **Gene amplified** |  **Size of amplicon (bp)** | **Source or reference** |
| 16S-Lru\_F | ACCATGAACACCGCATGATGTTC | 16S rRNA | 849 | This study |
| 16S-Lru\_R | TTCCATCTCTGGAATTGTCAGAAG |
| 27F | AGAGTTTGATCMTGGCTCAG | 16S rRNA | 1500 | (2) |
| 1492R | TACGGCACCTTGTTACGACTT |
| ftsQ-F | GTGCAGCACGTTGGACGATATCATC | *ftsQ* | 745 | This study |
| ftsQ-R | TTTTAGGATATGCGTAAGCTCCGACT |
| nrdB-F | AAGTTTTCGGAGGGCTGAC | *nrdB* | 733 | This study |
| nrdB-R | CCGTTTCCGACCTGAGAGAA |
| parB-F | CGGACTTGACGCATTATTCACTGAA | *parB* | 754 | This study |
| parB-R | GCTCTTGATTGAAACCTTCGTACTGA |
| pheS-F | GGACCTATTACTGAAGTGCTCCG | *pheS* | 839 | This study |
| pheS-R | TCCGGTCCAAGACCAAATGC |
| pstB-F | GACGTTCATCTGTACTATGGCAAA | *pstB* | 696 | This study |
| pstB-R | TTTGTTGTCCGGCGTCACAA |
| rpoA-F | CGCTTGAACGTGGCTATGGT | *rpoA* | 846 | This study |
| rpoA-R | CCAAGATCTGCCAACTTAGCC |
| rpsB-F | TCGTCGTTGGAACCCAAAGA | *rpsB* | 728 | This study |
| rpsB-R | AGTCTTCTTTACCTTCAACG |
| RT-PCR\_1-F | AAGATCGGGAGTTTGTTGC | LRN\_87/LRC\_00640 | 82 | This study |
| RT-PCR\_1-R | CCGAAAAGCTCATCTGAATC |
| RT-PCR\_2-F | TCAAGCTTCAGGAAATCTGC | LRN\_108/LRC\_00780 | 219 | This study |
| RT-PCR\_2-R | CCTGCTGAATATGTTTTGCC |
| RT-PCR\_3-F | GGCGAAAGTTTGATGAAGAC | LRN\_109/pfkB | 220 | This study |
| RT-PCR\_3-R | GCGCATATGAACGATAGACC |
| RT-PCR\_4-F | AGCCTGCACATCTCTTCTTC | LRN\_110/LRC\_00800 | 188 | This study |
| RT-PCR\_4-R | GTTTTCAGCTTCCTTCCTTG |
| RT-PCR\_5-F | GTCATGTCAAGGTTTTGCG | LRN\_324/LRC\_03250 | 218 | This study |
| RT-PCR\_5-R | TGCTCCGAGAATAAGATTGC |
| RT-PCR\_6-F | AGGGGAACGTACCGAAAAG | LRN\_409/LRC\_04370 | 113 | This study |
| RT-PCR\_6-R | GCATGGTCCAAATCAATGTC |
| RT-PCR\_7-F | TTATCGTCTCGGCTACCATC | LRN\_520 | 163 | This study |
| RT-PCR\_7-R | AATCATGTCCCTGCTTCTTG |
| RT-PCR\_8-F | GACGCTTGCCTATCTTTCC | LRN\_521 | 182 | This study |
| RT-PCR\_8-R | CAGATCCGATCCAGAACAG |
| RT-PCR\_9-F | GATGACCTCAGCCAAAAGC | LRN\_561/LRC\_05780 | 130 | This study |
| RT-PCR\_9-R | CGTACGTGTCCAAGAAAACC |
| RT-PCR\_10-F | CAGCAGCCAATTCAATACG | LRN\_598/LRC\_06170 | 103 | This study |
| RT-PCR\_10-R | GCTGAGTTCGACATCCATC |
| RT-PCR\_11-F | TGATGACGAACGCTTGAAC | LRN\_933 | 110 | This study |
| RT-PCR\_11-R | CTCTTCCCAATGCTGACTTG |
| RT-PCR\_12-F | ACGTCGCAGCTATGAACAC | LRN\_1405&1777/fliC | 159 | This study |
| RT-PCR\_12-R | AACCACCGATTTGTGACTTC |
| RT-PCR\_13-F | CAGGTTTGCGTATCAACAAG | LRN\_1410/LRC\_15700 | 165 | This study |
| RT-PCR\_13-R | GAATGCTGTGAGTTTCGTTC |
| RT-PCR\_14-F | CGAACGGTCAATACCAAATC | LRN\_1655/LRC\_18780 | 185 | This study |
| RT-PCR\_14-R | GATCGGAACGAAAACATCAG |
| RT-PCR\_15-F | GTGGCTTGTAATGCTATTCC | LRC\_16260 | 96 | This study |
| RT-PCR\_15-R | CTAACTGATTGTTTCGGCC |
| RecA-F | TTGGGAATCGTGTTCGTATC |  |  |  |
| RecA-R | TTCACCGGTCTTGGAAATC | *recA* | 156 | This study |