**Supplementary Table 1** Three sets of specific primers designed for picking a hypothetical protein, a structural protein gene and a terminase protein gene, respectively.

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| --- | --- | --- | --- |
| **Forward primer** | **Reverse primer** | **Target gene** | **Product size (bp)** |
| CAAAGGTGAACATGGGCGTG | CGGAAGGAATGGGCAGTTCT | Hypothetical protein (HP) | 222 |
| TGGGACTTTCGCTCAGGAAC | TGGGTAGCGCATTTTACGGT | Structural protein (SP) | 447 |
| TACCACGAACACGAAAGCGA | GATAGTCAACCTCGGCTCCG | Terminase protein (TP) | 673 |