

Table S4. PCR products and primer lists.

| Primers | PCR method | Description of PCR product | Recombinant proteins | Location of 6 × His tag ^a (expression vector) | Description of recombinant protein |
|------------------------------|-------------------------------------|--|----------------------|--|--|
| S24-1_ORF16F S24-1_ORF16R | PCR with genomic DNA | <i>orf16</i> cloned into pUC18 (pUC18) | rORF16 | N (pCold II) | Recombinant ORF16 |
| ORF16dF0 ORF16dF1 | inverse PCR with pUC18 <i>orf16</i> | 5'-truncated <i>orf16</i> | ORF16F1 | N (pCold II) | N-terminally deleted recombinant ORF16 |
| ORF16dF0 ORF16dF2 | inverse PCR with pUC18 <i>orf16</i> | 5'-truncated <i>orf16</i> | ORF16F2 | N (pCold II) | N-terminally deleted recombinant ORF16 |
| ORF16dF0 ORF16dF3 | inverse PCR with pUC18 <i>orf16</i> | 5'-truncated <i>orf16</i> | ORF16F3 | N (pCold II) | N-terminally deleted recombinant ORF16 |
| ORF16dF0 ORF16dF4 | inverse PCR with pUC18 <i>orf16</i> | 5'-truncated <i>orf16</i> | ORF16F4 | N (pCold II) | N-terminally deleted recombinant ORF16 |
| ORF16dF0 ORF16dF5 | inverse PCR with pUC18 <i>orf16</i> | 5'-truncated <i>orf16</i> | ORF16F5 | N (pCold II) | N-terminally deleted recombinant ORF16 |
| ORF16dR0 ORR16dR1 | inverse PCR with pUC18 <i>orf16</i> | 3'-truncated <i>orf16</i> | ORF16R1 | N (pCold II) | C-terminally deleted recombinant ORF16 |
| ORR16dR0 ORR16dR2 | inverse PCR with pUC18 <i>orf16</i> | 3'-truncated <i>orf16</i> | ORF16R2 | N (pCold II) | C-terminally deleted recombinant ORF16 |
| ORR16dR0 ORR16dR3 | inverse PCR with pUC18 <i>orf16</i> | 3'-truncated <i>orf16</i> | ORF16R3 | N (pCold II) | C-terminally deleted recombinant ORF16 |
| ORR16dR0 ORR16dR4 | inverse PCR with pUC18 <i>orf16</i> | 3'-truncated <i>orf16</i> | ORF16R4 | N (pCold II) | C-terminally deleted recombinant ORF16 |
| ORR16dR0 ORR16dR5 | inverse PCR with pUC18 <i>orf16</i> | 3'-truncated <i>orf16</i> | ORF16R5 | N (pCold II) | C-terminally deleted recombinant ORF16 |
| K_ORF68_F K_ORF68_R | PCR with genomic DNA | <i>orf68</i> of phage K | KORF68n-his | N (pCold II) | Recombinant ORF68 of phage K |
| K_ORF68_F K_ORF68_HIS_R | PCR with genomic DNA | <i>orf68</i> of phage K | KORF68c-his | C (pCold III) | Recombinant ORF68 of phage K |

^a, "N" and "C" indicate "N-terminal" and "C-terminal," respectively.