Table S3: PhismunNLML9-1 genome sequence annotations.

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| **ORF** | **ORF \_POSITION** | **BLAST\_HIT** | **E-VALUE** |
| ORF 1 | 11536..15165  | DNA-directed RNA polymerase II subunit  | 2e-59  |
| ORF 2 | 15292..15675  | DNA binding protein  | 1e-76  |
| ORF 3 | 15808..16749  | ABC transporter ATP-binding protein | 1e-175  |
| ORF 4 | 16883..17716  | ABC transporter  | 3e-153  |
| ORF 5 | 17746..17764  | attL    GCTTTTACGCTTATAGAAA  | 0.0  |
| ORF 6 | complement(17784..19226)  | phage integrase protein | 0.0  |
| ORF 7 | complement(19358..19879)  | phage protein  | 4e-32  |
| ORF 8 | complement(19936..20316)  | gp3 | 7e-30  |
| ORF 9 | complement(20309..20671)  | peptidase S24-like protein | 1e-22  |
| ORF 10 | 20854..21060  | helix-turn-helix protein | 2e-19  |
| ORF 11 | 21162..21302  | hypothetical protein | 1e-05  |
| ORF 12 | 21316..21453  | phage protein  | 3e-11  |
| ORF 13 | 21465..22781  | hypothetical protein | 9e-167  |
| ORF 14 | 22801..23883  | hypothetical protein  | 5e-108  |
| ORF 15 | 23925..24350  | hypothetical protein | 4e-40  |
| ORF 16 | 24353..25084  | hypothetical protein | 1e-73  |
| ORF 17 | 25106..25681  | hypothetical protein | 8e-31  |
| ORF 18 | 25681..27264  | DEAD box family helicase | 0.0  |
| ORF 19 | 27268..28137  | putative DNA methylase | 6e-69  |
| ORF 20 | 28147..30402  | DNA primase | 0.0  |
| ORF 21 | 30827..31069  | hypothetical | 0.0  |
| ORF 22 | 31050..31274  | hypothetical | 0.0  |
| ORF 23 | 31249..31494  | hypothetical protein | 8e-31  |
| ORF 24 | 31515..31925  | rus | 1e-34  |
| ORF 25 | 31922..32143  | hypothetical protein  | 2e-06  |
| ORF 26 | 32143..33072  | hypothetical protein  | 5e-12  |
| ORF 27 | 33075..33503  | hypothetical | 0.0  |
| ORF 28 | 33516..33929  | putative transcriptional activator | 1e-27  |
| ORF 29 | 34185..34676  | HNH endonuclease | 5e-39  |
| ORF 30 | 34900..35361  | terminase small subunit | 5e-67  |
| ORF 31 | 35573..37282  | putative large subunit of the terminase  | 0.0  |
| ORF 32 | 37323..37460  | putative head-tail joining protein | 6e-07  |
| ORF 33 | 37478..38632  | putative portal protein | 6e-159  |
| ORF 34 | 38619..39320  | putative scaffolding protein | 4e-82  |
| ORF 35 | 39320..40531  | major head protein | 9e-136  |
| ORF 36 | 40551..40877  | putative DNA packaging protein | 7e-24  |
| ORF 37 | 40870..41217  | putative head-tail joining protein | 7e-22  |
| ORF 38 | 41219..41638  | putative tail component protein | 2e-35  |
| ORF 39 | 41622..41993  | putative tail component protein | 2e-22  |
| ORF 40 | 41999..42664  | major tail protein | 4e-45  |
| ORF 41 | 42724..43107  | putative tail component protein | 2e-06  |
| ORF 42 | 43131..43295  | hypothetical protein | 4e-08  |
| ORF 43 | 43307..48340  | putative tail component protein | 0.0  |
| ORF 44 | 48356..49885  | putative tail component protein | 6e-61  |
| ORF 45 | 49882..52041  | tail-host specificity protein | 5e-61  |
| ORF 46 | 52042..53847  | putative minor structural protein | 0.0  |
| ORF 47 | 53871..54374  | hypothetical protein | 4e-83  |
| ORF 48 | 54416..54664  | hypothetical protein | 4e-36  |
| ORF 49 | 54661..55128  | putative holin | 4e-71  |
| ORF 50 | 55144..55965  | putative endolysin | 1e-149  |
| ORF 51 | 55965..56480  | putative endolysin  | 1e-88  |
| ORF 52 | complement(56623..57054)  | hypothetical protein  | 2e-38  |
| ORF 53 | complement(57070..57492)  | hypothetical protein | 2e-61  |
| ORF 54 | 57876..57894  | attR    GCTTTTACGCTTATAGAAA  | 0.0  |

ORF, open reading frame.