Table S2: Phismun24-1 genome sequence annotations.

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| **ORF** | **ORF \_POSITION** | **BLAST\_HIT** | **E-VALUE** |
| ORF 1 | 1..1659  | hypothetical protein | 5e-05  |
| ORF 2 | 1884..2723  | DegV domain-containing protein | 9e-15  |
| ORF 3 | 2716..3573  | hypothetical protein  | 1e-160  |
| ORF 4 | 3548..4147  | hypothetical protein | 1e-108  |
| ORF 5 | 4244..4519  | DNA-binding HU protein | 8e-29  |
| ORF 6 | 4833..5030  | hypothetical | 0.0  |
| ORF 7 | 5005..5250  | hypothetical protein | 1e-30  |
| ORF 8 | 5247..5678  | rus | 5e-35  |
| ORF 9 | 5671..6135  | Cytosine specific DNA methyltransferase | 6e-77  |
| ORF 10 | 6108..6359  | hypothetical protein  | 2e-06  |
| ORF 11 | 6356..7282  | hypothetical protein  | 7e-10  |
| ORF 12 | 7303..7716  | putative transcriptional activator | 9e-28  |
| ORF 13 | Complement(7760..7891)  | hypothetical | 0.0  |
| ORF 14 | 8029..8460  | hypothetical protein  | 2e-32  |
| ORF 15 | 8677..9138  | hypothetical protein  | 4e-66  |
| ORF 16 | 9284..11059  | putative large subunit of the terminase | 0.0  |
| ORF 17 | 11040..11237  | putative head-tail joining protein | 2e-12  |
| ORF 18 | 11255..12409  | putative portal protein | 6e-158  |
| ORF 19 | 12396..13097  | putative scaffolding protein | 2e-82  |
| ORF 20 | 13097..14302  | major head protein | 1e-132  |
| ORF 21 | 14322..14648  | putative DNA packaging protein | 7e-24  |
| ORF 22 | 14641..14988  | putative head-tail joining protein | 5e-22  |
| ORF 23 | 14990..15409  | putative tail component protein | 2e-35  |
| ORF 24 | 15393..15764  | putative tail component protein | 2e-22  |
| ORF 25 | 15771..16436  | major tail protein | 2e-45  |
| ORF 26 | 16496..16879  | putative tail component protein | 2e-06  |
| ORF 27 | 16903..17067  | hypothetical protein | 4e-08  |
| ORF 28 | 17079..22112  | putative tail component protein | 0.0  |
| ORF 29 | 22128..23657  | putative tail component protein | 6e-61  |
| ORF 30 | 23654..25810  | tail-host specificity protein  | 5e-59  |
| ORF 31 | 25811..27568  | tail protein | 5e-54  |
| ORF 32 | 27590..28093  | hypothetical protein | 3e-61  |
| ORF 33 | 28111..28383  | hypothetical protein | 1e-39  |
| ORF 34 | 28380..28847  | putative holin | 1e-72  |
| ORF 35 | 28861..29682  | putative endolysin | 2e-147  |
| ORF 36 | 29682..30197  | putative endolysin | 2e-86  |
| ORF 37 | Complement(30340..30771)  | hypothetical protein | 2e-38  |
| ORF 38 | Complement(30800..31222)  | hypothetical protein | 3e-59  |

ORF, open reading frame.