Table S4: Phismun66-1 genome sequence annotations.

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| **ORF** | **ORF \_POSITION** | **BLAST\_HIT** | **E-VALUE** |
| ORF 1 | 1..246  | hypothetical protein | 8e-31  |
| ORF 2 | 243..680  | Rus, putative phage associated protein | 1e-34  |
| ORF 3 | 673..1137  | Cytosine specific DNA methyltransferase;  | 2e-77  |
| ORF 4 | 1140..1361  | hypothetical protein  | 2e-06  |
| ORF 5 | 1358..2284  | hypothetical protein  | 8e-12  |
| ORF 6 | 2305..2718  | putative transcriptional activator | 3e-27  |
| ORF 7 | Complement(2762..2893)  | hypothetical | 0.0  |
| ORF 8 | 3038..3184  | hypothetical | 0.0  |
| ORF 9 | 3265..3462  | hypothetical protein phiadhp38 | 2e-14  |
| ORF 10 | 3678..4139  | hypothetical protein  | 1e-67  |
| ORF 11 | 4285..6060  | terminase large subunit | 0.0  |
| ORF 12 | 6047..6238  | head-tail joining protein | 5e-12  |
| ORF 13 | 6256..7410  | portal protein  | 3e-156  |
| ORF 14 | 7397..8098  | scaffolding protein | 5e-84  |
| ORF 15 | 8098..9303  | major capsid protein | 1e-131  |
| ORF 16 | 9323..9649  | DNA packaging protein | 7e-24  |
| ORF 17 | 9642..9989  | capsid-tail joining protein | 4e-22  |
| ORF 18 | 9991..10401  | tail component protein | 9e-28  |
| ORF 19 | 10385..10756  | tail component protein | 3e-22  |
| ORF 20 | 10720..11427  | major tail protein | 2e-44  |
| ORF 21 | 11487..11870  | tail component protein | 1e-05  |
| ORF 22 | 11894..12058  | hypothetical protein | 4e-08  |
| ORF 23 | 12070..17103  | putative tail component protein | 0.0  |
| ORF 24 | 17119..18648  | putative tail protein | 0.0  |
| ORF 25 | 18645..20801  | host specificity protein | 7e-61  |
| ORF 26 | 20802..22559  | tail protein | 3e-57  |
| ORF 27 | 22562..23083  | hypothetical protein | 1e-60  |
| ORF 28 | 23125..23373  | hypothetical protein | 3e-36  |
| ORF 29 | 23370..23813  | putative holin  | 3e-62  |
| ORF 30 | Complement(24006..26579)  | ABC transporter, permease protein  | 0.0  |
| ORF 31 | Complement(26619..28238)  | hypothetical protein  | 3e-20  |

ORF, open reading frame.