Table S2 Genome annotation of SLPW phage

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| ORF | Lengths of amino acids | Function prediction or homologies | Identities of amino acids |
| S13' | 66 | PSa3 | phiP68 | 44AHJD | PT1028 |
| Gp1 | 100 | Phage protein | 96% | 96% | 94% | 98% | 97% | n.p. |
| Gp2 | 78 | Phage protein | 94% | 95% | 76% | 82% | 81% | n.p. |
| Gp3 | 112 | Single stranded DNA-binding protein, phage-associated | 97% | 95% | 94% | 94% | 95% | 32% |
| Gp4 | 59 | Phage protein | 45% | 42% | 42% | n.p. | 42% | n.p. |
| Gp5 | 55 | Phage protein | 98% | 93% | 88% | 82% | 87% | n.p. |
| Gp6 | 159 | Phage protein | 54% | 55% | 53% | 54% | 55% | n.p. |
| Gp7 | 378 | Phage DNA packaging | 98% | 96% | 97% | 96% | 96% | 26% |
| Gp8 | 755 | DNA polymerase phage-associated | 96% | 94% | 95% | 97% | 95% | n.p. |
| Gp9 | 478 | Phage protein | 96% | 97% | 99% | 97% | 97% | n.p. |
| Gp10 | 140 | Probable holin | 97% | 90% | 98% | 90% | 94% | n.p. |
| Gp11 | 587 | Phage tail fibers | 99% | 98% | 99% | 99% | 99% | n.p. |
| Gp12 | 151 | Phage tail fibers | 89% | 90% | 87% | 91% | 89% | n.p. |
| Gp13 | 179 | Phage minor tail protein | 96% | 92% | 90% | 93% | 95% | n.p. |
| Gp14 | 250 | Phage lysin, N-acetylmuramoyl-L-alanine amidase | 91% | 94% | 91% | 92% | 92% | n.p. |
| Gp15 | 644 | Putative major teichoic acid biosynthesis protein C | 98% | 97% | 95% | 97% | 97% | 28% |
| Gp16 | 251 | Phage lower collar protein | 98% | 96% | 97% | 96% | 96% | 22% |
| Gp17 | 327 | Phage collar | 100% | 92% | 93% | 92% | 94% | n.p. |
| Gp18 | 403 | Phage capsid and scaffold | 98% | 92% | 92% | 93% | 92% | 25% |
| Gp19 | 60 | Phage protein | 98% | 98% | 97% | 98% | 98% | n.p. |
| Gp20 | 133 | Phage protein | 81% | 71% | 69% | 64% | 65% | n.p. |
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n. p. gene not present