Table S1 The sequence identity of the SLPW genome with other *Staphylococcus* phage

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| --- | --- | --- | --- | --- | --- | --- |
| Accession | Other phages | Phage type | Genome size (bp) | Morphology | Query cover | Ident |
| AB626963.1AY954949.1HF937074.1 | *Staphylococcus* phage S13'Bacteriophage 66*Staphylococcus* phage PSa3  | Lytic Lytic Lytic  | 181861819917602 | PodoviridaePodoviridaePodoviridae | 97%98%99% | 94%91%91% |
| AF513033.1 | *Staphylococcus* phage phiP68 | Lytic  | 18227 | Podoviridae | 98% | 91% |
| AB626962.1 | *Staphylococcus* phage S24-1 | Lytic  | 18168 | Podoviridae | 93% | 93% |
| EU136189.1 | *Staphylococcus* phage SAP-2 | Lytic  | 17938 | Podoviridae | 94% | 92% |
| AF513032.1 | *Staphylococcus* phage phi44AHJD | Lytic  | 16784 | Podoviridae | 90% | 91% |
| KJ210330.1 | *Staphylococcus* phage GRCS | Lytic  | 17869 | Podoviridae | 90% | 90% |
| JQ309827.1 | *Enterococcus* phage vB\_Efae230P-4 | Lytic | 17972 | Podoviridae | 1% | 77% |
| NC007045 | *Staphylococcus* phage PT1028 | Temperate | 15603 | Unknown | 6% | 92% |