## Supplementary Table S2. List of phages used in this study.

| S. aureus phages | Viral taxonomy
genusa | Incubation temperature for phage propagationb | Amplified host bacteria | Culture media
c | Morphology (mean ± SD; nm)d | Genome size (kbp) | Description/references |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>S6</td>
<td>Myoviridae</td>
<td>Not assigned</td>
<td>30 °C</td>
<td>S. aureus SA27</td>
<td>TSB</td>
<td>118.1 ± 8.5 236.9 ± 6.6</td>
<td>270</td>
</tr>
<tr>
<td>80</td>
<td>Siphoviridae</td>
<td>N.A.</td>
<td>37 °C</td>
<td>S. aureus RN4220</td>
<td>TSBM</td>
<td>42</td>
<td>Hoshiba et al., 2010</td>
</tr>
<tr>
<td>MR25</td>
<td>Siphoviridae</td>
<td>N.A.</td>
<td>37 °C</td>
<td>S. aureus RN4220</td>
<td>TSBM</td>
<td>44</td>
<td>Hoshiba et al., 2010</td>
</tr>
<tr>
<td>S13'</td>
<td>Podoviridae</td>
<td>AHJD-like viruses</td>
<td>37 °C</td>
<td>S. aureus SA27</td>
<td>TSB</td>
<td>43.2 ± 2.3 32.1 ± 3.8</td>
<td>19</td>
</tr>
<tr>
<td>S25-3</td>
<td>Myoviridae</td>
<td>Twort-like viruses</td>
<td>37 °C</td>
<td>S. aureus SA27</td>
<td>TSB</td>
<td>86.3 ± 3.9 242.5 ± 11.1</td>
<td>138</td>
</tr>
</tbody>
</table>

a. N.A., not assigned.
b. Phage S6 had a stronger lytic activity at 30°C than at 37°C (see Figure S3).
c. TSB, tryptic soy broth; TSBM, TSB supplemented with 20 mM MgCl₂.
d. SD, standard deviation.