

## Supplementary Information

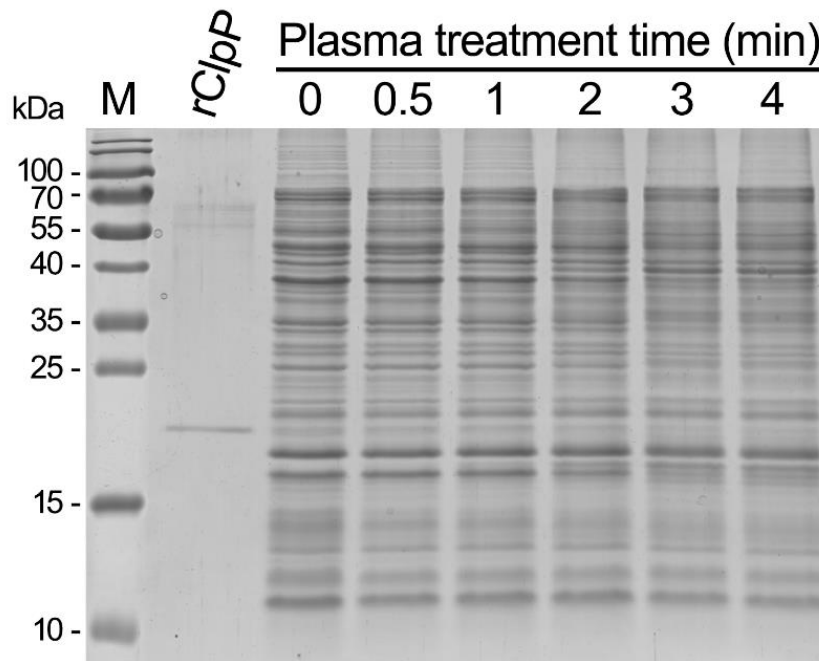
### Supplementary Table

**Supplementary Table 1.** Tryptic fragments of plasma-treated and untreated SaClpP protein identified by mass spectrometry. The modification fragments in plasma-treated SaClpP protein were indicated in blue.

Amino acid residue No.	Calculated mass (Da)	Measured mass (Da)	Sequences of identified peptides	Spectrum count
<b>Plasma-treated SaClpP</b>				
1–13	1500.79	1500.80	MNLIPTVIETTNR	62
1–13	1516.80	1516.79	M(O)NLIPTVIETTNR	31
1–16	1842.97	1842.96	MNLIPTVIETTNRGER	14
1–16	1858.96	1858.96	M(O)NLIPTVIETTNRGER	8
2–13	1369.76	1369.76	NLIPTVIETTNR	10
2–16	1711.93	1711.92	NLIPTVIETTNRGER	1
17–23	886.42	886.42	AYDIYSR	14
<b>17–23</b>	<b>902.42</b>	<b>902.42</b>	<b>AYDIY(O)SR</b>	<b>3</b>
112–145	3636.92	3636.92	FALPNAEVMIHQPLGGAQQGQATEIEIAANHILK	3
<b>112–145</b>	<b>3651.92</b>	<b>3651.91</b>	<b>FALPNAEVMIHQPLGGAQ(O)GQATEIEIAANHILK</b>	<b>1</b>
<b>112–145</b>	<b>3652.92</b>	<b>3652.91</b>	<b>FALPNAEVMIHQPLGGAQ(O)GQATEIEIAANHILK</b>	<b>1</b>
113–145	3480.83	3480.82	FALPNAEVMIHQPLGGAQQGQATEIEIAANHILK	9
113–145	3496.82	3496.81	FALPNAEVMIHQPLGGAQ(O)GQATEIEIAANHILK	5
<b>113–145</b>	<b>3512.81</b>	<b>3512.81</b>	<b>FALPNAEVMIHQPLGGA(OO)QGQATEIEIAANHILK</b>	<b>1</b>
113–147	3737.98	3737.97	FALPNAEVMIHQPLGGAQQGQATEIEIAANHILKTR	1
<b>113–147</b>	<b>3753.97</b>	<b>3753.96</b>	<b>FALPNAEVMIH(O)QPLGGAQQGQATEIEIAANHILKTR</b>	<b>1</b>
158–164	761.39	761.39	TGQSIEK	2
165–181	1992.98	1992.98	IQKDTDRDNFLTAEAAK	14
168–181	1623.74	1623.74	DTDRDNFLTAEAAK	69
<b>168–181</b>	<b>1639.74</b>	<b>1639.73</b>	<b>DTDRDNF(O)LTAEAAK</b>	<b>10</b>
<b>168–181</b>	<b>1654.71</b>	<b>1654.72</b>	<b>DTDRDNFLTAEAAK(OO)</b>	<b>1</b>
168–195	3227.53	3227.52	DTDRDNFLTAEAAKEYGLIDEVMVPETK	19
168–195	3272.51	3272.48	DTDRDNFLTAEAAKEYGLIDEVMVPETK(3-O)	2
<b>168–195</b>	<b>3243.52</b>	<b>3243.51</b>	<b>DTDRDNFLTAEAAKEY(O)GLIDEVMVPETK</b>	<b>24</b>
<b>168–195</b>	<b>3259.52</b>	<b>3259.51</b>	<b>DTDRDNFLTAEAAKEYGLIDEVM(OO)VPETK</b>	<b>2</b>
172–181	1136.54	1136.53	DNFLTAEAAK	7
172–195	1621.80	1621.79	DNFLTAEAAKEYGLIDEVMVPETK	1
172–195	2740.32	2740.32	DNFLTAEAAKEYGLIDEVM(O)VPETK	1
182–195	1621.80	1621.79	EYGLIDEVMVPETK	27
182–195	1637.79	1637.79	EYGLIDEVM(O)VPETK	49

182–195	1653.79	1653.78	EYGLIDEV <a href="#">MVPETK(OO)</a>	1
<b>Untreated SaClpP</b>				
1–13	1500.79	1500.80	MNLIPTVIETTNR	74
1–13	1516.80	1516.79	M(O)NLIPTVIETTNR	16
1–16	1842.97	1842.96	MNLIPTVIETTNRGER	17
1–16	1858.96	1858.96	M(O)NLIPTVIETTNRGER	7
2–13	1369.76	1369.76	NLIPTVIETTNR	10
2–16	1711.92	1711.92	NLIPTVIETTNRGER	2
17–23	886.42	886.42	AYDIYSR	6
113–145	3480.83	3480.82	FALPNAEVMIHQPLGGAQQGQATEIEIAANHILK	2
113–145	3496.83	3496.81	FALPNAEVM(O)IHQPLGGAQQGQATEIEIAANHILK	1
158–164	761.39	761.39	TGQSIEK	1
158–167	1130.63	1130.63	TGQSIEKIQK	1
165–181	1992.98	1992.98	IQKDTDRDNFLTAEEAK	8
168–181	1623.74	1623.74	DTDRDNFLTAEEAK	48
168–195	3227.53	3227.52	DTDRDNFLTAEEAKEYGLIDEVMVPETK	3
172–181	1136.54	1136.53	DNFLTAEEAK	6
182–195	1621.80	1621.79	EYGLIDEVMVPETK	62
182–195	1637.79	1637.79	EYGLIDEVM(O)VPETK	37

**Supplementary Figure 1.** SDS-PAGE of soluble proteins from *S. aureus* biofilms treated with LTGP or untreated.



**Supplementary Figure 2.** The MS/MS spectrum of three oxidatively modified peptides derived from the tryptic digestion of LTGP-treated SaClpP protein.

