

Supplementary Table 7 Statistics of proteins' conservation

Type	Shapiro-Wilk test Protein without species	Shapiro-Wilk test Protein with species	F-test Protein without species/Protein with species	Mann-Whitney Test Protein without species/Protein with species
<i>V. Parahaemolyticus</i>	0.0000	0.0000	0.0038	0.0002
<i>L. pneumophila</i>	0.0000	0.0000	0.0003	0.0001
<i>C. tetani</i>	0.0005	0.0024	0.0331	0.0318
<i>S. aureus</i>	0.0013	0.0530	0.0082	0.0096
Overall average distance	0.0881	0.0133	0.0007	0.0012