

S2 Table. The frequency of orthologous versus non-orthologous CDS varies among STs. Pearson chi-square analysis testing the independence of gene conservation (orthologous vs. non-orthologous CDS) and ST ($X^2(3)=67.3$, $p<0.001$). Each cell in the contingency represents the observed frequency and standardized residual (in between brackets) and is preceded by + or - if the standardized residual is >1.96 or <-1.96 , respectively, and significant at $p<0.05$.

ST	Orthologous CDS	Non-orthologous CDS
ST180	10537 (-0.471)	808 (1.757)
ST189	10276 (1.217)	- 606 (-4.541)
ST287	10999 (-1.473)	+ 956 (5.499)
ST650	10525 (0.797)	- 668 (-2.974)