

Table S2. Means \pm S.E. (and medians) of variables describing codon usage in genes analyzed for ingroup species.

	T2	A2	T4	A4	C4
<i>Burkholderia pseudomallei</i>	0.1846 \pm 0.017 (0.1754)	0.2236 \pm 0.024 (0.2105)	0.0264 \pm 0.0005 (0.0217)	0.0216 \pm 0.0004 (0.0177)	0.4460 \pm 0.0012 (0.4470)
<i>Campylobacter jejuni</i>	0.8565 \pm 0.0021 (0.8633)	0.8351 \pm 0.0023 (0.8370)	0.5112 \pm 0.0023 (0.5124)	0.3016 \pm 0.0021 (0.3000)	0.1036 \pm 0.0016 (0.0976)
<i>Chlamydophila pneumoniae</i>	0.6630 \pm 0.0069 (0.6719)	0.6649 \pm 0.0071 (0.6738)	0.3949 \pm 0.0049 (0.3935)	0.2712 \pm 0.0036 (0.2717)	0.1986 \pm 0.0042 (0.1950)
<i>Ehrlichia ruminantium</i>	0.8231 \pm 0.0037 (0.8389)	0.7632 \pm 0.0041 (0.7647)	0.4404 \pm 0.0043 (0.4430)	0.4332 \pm 0.0045 (0.4124)	0.0584 \pm 0.0015 (0.0520)
<i>Helicobacter pylori</i>	0.6818 \pm 0.0019 (0.6823)	0.6993 \pm 0.0022 (0.7046)	0.3419 \pm 0.0019 (0.3371)	0.1235 \pm 0.0012 (0.1198)	0.2567 \pm 0.0019 (0.2537)
<i>Neisseria meningitidis</i>	0.3953 \pm 0.0042 (0.3856)	0.6186 \pm 0.0046 (0.6415)	0.1577 \pm 0.0024 (0.1444)	0.1009 \pm 0.0014 (0.0944)	0.4456 \pm 0.0038 (0.4485)
<i>Pseudomonas syringae</i>	0.2640 \pm 0.0028 (0.2593)	0.3833 \pm 0.0030 (0.3793)	0.1800 \pm 0.0023 (0.1667)	0.0762 \pm 0.0009 (0.0729)	0.3933 \pm 0.0020 (0.3934)
<i>Shigella flexneri</i>	0.4607 \pm 0.0044 (0.4700)	0.5844 \pm 0.0035 (0.5870)	0.2243 \pm 0.0023 (0.2167)	0.1282 \pm 0.0018 (0.1206)	0.2831 \pm 0.0022 (0.2823)
<i>Staphylococcus aureus</i>	0.7966 \pm 0.0020 (0.8101)	0.8390 \pm 0.0017 (0.8387)	0.4050 \pm 0.0020 (0.4000)	0.3950 \pm 0.0016 (0.3944)	0.0854 \pm 0.0011 (0.0811)
<i>Streptococcus pneumoniae</i>	0.6452 \pm 0.0038 (0.6596)	0.5964 \pm 0.0042 (0.5909)	0.3985 \pm 0.0031 (0.3875)	0.2638 \pm 0.0023 (0.2564)	0.2097 \pm 0.0028 (0.2091)
<i>Streptococcus pyogenes</i>	0.7101 \pm 0.0034 (0.7273)	0.7083 \pm 0.0030 (0.7054)	0.4292 \pm 0.0026 (0.4203)	0.2730 \pm 0.0019 (0.2705)	0.1775 \pm 0.0022 (0.1748)
<i>Yersinia pestis</i>	0.5887 \pm 0.0114 (0.5862)	0.5765 \pm 0.0105 (0.5873)	0.2399 \pm 0.0065 (0.2329)	0.1709 \pm 0.0057 (0.1563)	0.2813 \pm 0.0072 (0.2794)