

Table S4. Percentage of duplicated genes in the proteomes with similar size to *Ca. L. asiaticus*

species name	proteome size	percentage of duplicated genes
Orientia tsutsugamushi str. Boryong	1182	50.931
Mycoplasma mycoides subsp. mycoides SC str.	1095	48.676
Mycoplasma mycoides subsp. mycoides SC str. PG1	1016	45.768
Lactobacillus fermentum CECT 5716	1051	45.576
Burkholderia vietnamiensis G4	1114	44.075
Mycoplasma penetrans HF-2	1037	40.405
Wolbachia sp. wRi	1150	39.391
Brucella microti CCM 4915	1167	36.675
Wolbachia endosymbiont of Drosophila	1195	34.895
Vibrio cholerae O395	1133	32.304
Candidatus Liberibacter solanacearum CLso-ZC1	1192	31.208
Bartonella quintana str. Toulouse	1142	26.620
cyanobacterium UCYN-A	1199	26.439
Chlamydophila pneumoniae J138	1069	26.099
Lawsonia intracellularis PHE/MN1-00	1185	25.907
Chlamydophila pneumoniae CWL029	1052	25.665
Chlamydophila pneumoniae TW-183	1113	24.618
Chlamydophila pneumoniae LPCoLN	1097	24.521
Chlamydophila pneumoniae AR39	1110	24.234
Chlamydophila felis Fe/C-56	1005	23.184
Ehrlichia chaffeensis str. Arkansas	1105	23.167
Treponema pallidum subsp. pallidum str. Nichols	1031	22.599
Candidatus Liberibacter asiaticus str. psy62	1109	22.092
Treponema pallidum subsp. pallidum SS14	1028	22.082
Rickettsia africae ESF-5	1030	21.553
Rickettsia canadensis str. McKiel	1093	16.926