**Table S1.** Primers used for quantitative PCR

|  |  |  |
| --- | --- | --- |
| Symbionts/aphid host | Primers names | Primers sequences (5’-3’) |
| *Regiella insecticola* | Reg-EFTU-F | CGTGGAACCAAACGTGAAGAG |
| Reg-EFTU-R | TTTCAACCCCTTCTGGCAAC |
| *Hamiltonella defensa* | gyrBT-type484F | TTCCTGAAATCCATCGTTCC |
| gyrBT-type685R | CAAACGCAACGATCAAGAAA |
| *Rickettsiella viridis* | P136Ric-211F | GGGCCTTGCGCTCTAGGT |
| P136Ric-470R | TGGGTACCGTCACAGTAATCGA |
| *Rickettsia sp.* | RicCS-AF | TTTAGGCTAATGGGTTTTGGTCAT |
| RicCS-AR | TGCCCAAGTTCTTTTAACACCTC |
| *Spiroplasma sp.* | SPI618F | GTGGCAAGCGTTATCCGGAT |
| SPI834R | CCCACGCTTTCGTGCCACAA |
| *Buchnera aphidicola* | BuchDNAK-F | ATGGGTAAAATTATTGGTATTG |
| BuchDNAK-R | ATAGCTTGACGTTTAGCAGG |
| *Serratia symbiotica* | PASSGroE-AF1 | CCTCAAGGCTGTGGCCG |
| PASSGroE-AR1 | GAGTTTGCAGAGATGGTGCCTA |
| *Fukatsuia* (PAXS or X-type) | *PAX650F* | AAGGGCACGTAGGCGGTTTC |
| *PAX824R* | CGCACCTCAGCGTCAGTCTC |
| *Acyrthosiphon pisum* (aphid host) | Ap-CtpL-F | TACGAATCCGGCGAAGAAAC |
| Ap-CtpL-R | ATCACCACCAGCCAAACTGG |