**Supplementary Table S2.** Pairwise distance among the tick species. The distance was calculated based on the complete *cox1* sequences (1539 bp) of the ticks

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tick species (ID) | *H. longicornis* (C94) | *H. longicornis* (J83) | *H. flava* (C78) | *H. flava* (J93) | *H. doenitzi* (C139) | *I. nipponensis* (J1) | *I. nipponensis* (J23) | *A. testudinarium* (J73) | *A. testudinarium* (J94) |
| *H. longicornis* (C94) | 1 |  |  |  |  |  |  |  |  |
| *H. longicornis* (J83) | 0.999 | 1 |  |  |  |  |  |  |  |
| *H. flava* (C78) | 0.856 | 0.857 | 1 |  |  |  |  |  |  |
| *H. flava* (J93) | 0.857 | 0.858 | 0.998 | 1 |  |  |  |  |  |
| *H. doenitzi* (C139) | 0.871 | 0.871 | 0.853 | 0.854 | 1 |  |  |  |  |
| *I. nipponensis* (J1) | 0.738 | 0.738 | 0.729 | 0.731 | 0.742 | 1 |  |  |  |
| *I. nipponensis* (J23) | 0.737 | 0.738 | 0.729 | 0.730 | 0.742 | 0.996 | 1 |  |  |
| *A. testudinarium* (J73) | 0.831 | 0.832 | 0.833 | 0.834 | 0.830 | 0.748 | 0.747 | 1 |  |
| *A. testudinarium* (J94) | 0.832 | 0.833 | 0.832 | 0.833 | 0.830 | 0.749 | 0.748 | 0.997 | 1 |