**Supplementary Table 3.** The evolutionary divergence between 16S rRNA gene of *Ehrlichia*.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 1 | **E. canis, OK667945** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | **E. canis, OK667946** | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | E. canis, KX987326 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | E. canis, AF373613 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | E. canis, U26740 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | E. canis, M73221 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | E. canis, EF011111 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | E. canis, AY621071 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | E. chaffeensis, AF147752 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | E. chaffeensis, M73222 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | E. chaffeensis, MZ433240 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |  |  |  |  |  |  |  |  |  |  |  |
| 12 | E. muris, AB013008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 |  |  |  |  |  |  |  |  |  |  |
| 13 | E. muris, GU358691 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.000 |  |  |  |  |  |  |  |  |  |
| 14 | E. ewingii, M73227 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |  |  |  |  |  |  |  |  |
| 15 | E. ewingii, U96436 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.000 |  |  |  |  |  |  |  |
| 16 | Ehrlichia sp., MF069159 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.012 | 0.012 | 0.012 | 0.008 | 0.008 | 0.006 | 0.006 |  |  |  |  |  |  |
| 17 | Ehrlichia sp., KU586088 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.008 | 0.008 | 0.010 |  |  |  |  |  |
| 18 | E. ruminantium, NR074513 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.016 | 0.016 | 0.018 | 0.016 |  |  |  |  |
| 19 | E. ruminantium, DQ647616 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.016 | 0.016 | 0.018 | 0.016 | 0.004 |  |  |  |
| 20 | Ca.N.mikurensis, KF155483 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.066 | 0.066 | 0.066 | 0.064 | 0.064 | 0.058 | 0.064 | 0.060 | 0.064 |  |  |
| 21 | Ca.N.mikurensis, KC108715 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.066 | 0.066 | 0.066 | 0.064 | 0.064 | 0.058 | 0.064 | 0.060 | 0.064 | 0.000 |  |
| 22 | E. equi, AF172166 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.064 | 0.064 | 0.064 | 0.062 | 0.062 | 0.056 | 0.054 | 0.066 | 0.066 | 0.054 | 0.054 |