**Supplementary Table 6.** The evolutionary divergence between 5.8S rRNA and ITS2 gene of *Babesia*.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 1 | **B. vogeli, OK663196** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | **B. vogeli, OK663203** | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | B. vogeli, EU084676 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | B. vogeli, JX535812 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | B. vogeli, MN067713 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | B. vogeli, MK881125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | B. vogeli, MK881129 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | B. vogeli, EU084675 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | B. vogeli, KF953983 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | B. vogeli, AF394534 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | B. caballi, AF394536 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | B. ovata, EF422218 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.058 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | B. bigemina, EF458267 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.058 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | B. bigemina, KT124536 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.058 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | B. divergens, EU182599 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.043 | 0.058 | 0.058 | 0.058 |  |  |  |  |  |  |  |  |  |  |  |
| 16 | B. divergens, EU185801 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.043 | 0.058 | 0.058 | 0.058 | 0.000 |  |  |  |  |  |  |  |  |  |  |
| 17 | B. divergens, EF458174 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.043 | 0.058 | 0.058 | 0.058 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |
| 18 | B. gibsoni, KU510309 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.059 | 0.059 | 0.059 | 0.059 | 0.015 | 0.015 | 0.015 |  |  |  |  |  |  |  |  |
| 19 | B. gibsoni, MN928851 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.059 | 0.059 | 0.059 | 0.059 | 0.015 | 0.015 | 0.015 | 0.000 |  |  |  |  |  |  |  |
| 20 | B. gibsoni, KP666151 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.059 | 0.059 | 0.059 | 0.059 | 0.015 | 0.015 | 0.015 | 0.000 | 0.000 |  |  |  |  |  |  |
| 21 | B. microti, AF510197 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.203 | 0.188 | 0.188 | 0.188 | 0.159 | 0.159 | 0.159 | 0.162 | 0.162 | 0.162 |  |  |  |  |  |
| 22 | B. microti, AB112336 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.203 | 0.188 | 0.188 | 0.188 | 0.159 | 0.159 | 0.159 | 0.162 | 0.162 | 0.162 | 0.000 |  |  |  |  |
| 23 | Babesia sp., EF564715 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.087 | 0.043 | 0.043 | 0.043 | 0.087 | 0.087 | 0.087 | 0.074 | 0.074 | 0.074 | 0.217 | 0.217 |  |  |  |
| 24 | Babesia sp., LC593296 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.058 | 0.072 | 0.072 | 0.072 | 0.014 | 0.014 | 0.014 | 0.029 | 0.029 | 0.029 | 0.145 | 0.145 | 0.101 |  |  |
| 25 | B. bovis, EF547925 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.265 | 0.250 | 0.250 | 0.250 | 0.265 | 0.265 | 0.265 | 0.250 | 0.250 | 0.250 | 0.309 | 0.309 | 0.221 | 0.265 |  |
| 26 | B. bovis, KF928960 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.265 | 0.250 | 0.250 | 0.250 | 0.265 | 0.265 | 0.265 | 0.250 | 0.250 | 0.250 | 0.309 | 0.309 | 0.221 | 0.265 | 0.000 |