**Supplementary Table 5.** The evolutionary divergence between 18S rRNA 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 | 26 | 27 |
| 1 | **B. vogeli, OK663011** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | **B. vogeli, OK663019** | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | B. vogeli, AB083374 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | B. vogeli, AY371198 | 0.001 | 0.001 | 0.001 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | B. vogeli, AY371196 | 0.000 | 0.000 | 0.000 | 0.001 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | B. vogeli, HM590440 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | B. vogeli, MK881089 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | B. vogeli, MN067709 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | B. divergens, GU057385 | 0.051 | 0.051 | 0.051 | 0.052 | 0.051 | 0.051 | 0.051 | 0.051 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | B. divergens, KU862300 | 0.051 | 0.051 | 0.051 | 0.052 | 0.051 | 0.051 | 0.051 | 0.051 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | B. divergens, FJ944826 | 0.053 | 0.053 | 0.053 | 0.054 | 0.053 | 0.053 | 0.053 | 0.053 | 0.008 | 0.008 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | B. venatorum, KU862302 | 0.042 | 0.042 | 0.042 | 0.043 | 0.042 | 0.042 | 0.042 | 0.042 | 0.026 | 0.026 | 0.025 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | B. venatorum, LC005775 | 0.042 | 0.042 | 0.042 | 0.043 | 0.042 | 0.042 | 0.042 | 0.042 | 0.026 | 0.026 | 0.025 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | B. gibsoni, KC811802 | 0.049 | 0.049 | 0.049 | 0.051 | 0.049 | 0.049 | 0.049 | 0.049 | 0.045 | 0.046 | 0.047 | 0.044 | 0.044 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | B. gibsoni, AB118032 | 0.051 | 0.051 | 0.051 | 0.052 | 0.051 | 0.051 | 0.051 | 0.051 | 0.044 | 0.044 | 0.045 | 0.043 | 0.043 | 0.001 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | Babesia sp., KU862305 | 0.035 | 0.035 | 0.035 | 0.036 | 0.035 | 0.035 | 0.035 | 0.035 | 0.045 | 0.045 | 0.048 | 0.038 | 0.038 | 0.038 | 0.036 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | Babesia sp., GU057382 | 0.035 | 0.035 | 0.035 | 0.036 | 0.035 | 0.035 | 0.035 | 0.035 | 0.045 | 0.045 | 0.048 | 0.038 | 0.038 | 0.038 | 0.036 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |
| 18 | B. microti, KU862301 | 0.092 | 0.092 | 0.092 | 0.093 | 0.092 | 0.092 | 0.092 | 0.092 | 0.083 | 0.083 | 0.088 | 0.083 | 0.083 | 0.092 | 0.091 | 0.088 | 0.088 |  |  |  |  |  |  |  |  |  |  |
| 19 | B. microti, LC005772 | 0.092 | 0.092 | 0.092 | 0.093 | 0.092 | 0.092 | 0.092 | 0.092 | 0.083 | 0.083 | 0.088 | 0.083 | 0.083 | 0.092 | 0.091 | 0.088 | 0.088 | 0.000 |  |  |  |  |  |  |  |  |  |
| 20 | B. microti, AF231348 | 0.092 | 0.092 | 0.092 | 0.093 | 0.092 | 0.092 | 0.092 | 0.092 | 0.083 | 0.083 | 0.088 | 0.083 | 0.083 | 0.092 | 0.091 | 0.088 | 0.088 | 0.000 | 0.000 |  |  |  |  |  |  |  |  |
| 21 | B. major, EU622907 | 0.073 | 0.073 | 0.073 | 0.075 | 0.073 | 0.073 | 0.073 | 0.073 | 0.068 | 0.068 | 0.072 | 0.062 | 0.062 | 0.061 | 0.059 | 0.062 | 0.062 | 0.095 | 0.094 | 0.094 |  |  |  |  |  |  |  |
| 22 | B. crassa, AY260177 | 0.062 | 0.062 | 0.062 | 0.063 | 0.062 | 0.062 | 0.062 | 0.062 | 0.056 | 0.057 | 0.058 | 0.050 | 0.050 | 0.059 | 0.058 | 0.059 | 0.059 | 0.077 | 0.077 | 0.077 | 0.031 |  |  |  |  |  |  |
| 23 | B. motasi, AY260179 | 0.061 | 0.061 | 0.061 | 0.062 | 0.061 | 0.061 | 0.061 | 0.061 | 0.060 | 0.060 | 0.058 | 0.056 | 0.056 | 0.068 | 0.066 | 0.062 | 0.062 | 0.085 | 0.085 | 0.085 | 0.053 | 0.045 |  |  |  |  |  |
| 24 | B. bigemina, MT898488 | 0.066 | 0.066 | 0.066 | 0.065 | 0.066 | 0.066 | 0.066 | 0.066 | 0.051 | 0.052 | 0.055 | 0.055 | 0.055 | 0.051 | 0.050 | 0.050 | 0.050 | 0.075 | 0.075 | 0.075 | 0.056 | 0.048 | 0.056 |  |  |  |  |
| 25 | B. bigemina, FJ426361 | 0.063 | 0.063 | 0.063 | 0.062 | 0.063 | 0.063 | 0.063 | 0.063 | 0.051 | 0.052 | 0.055 | 0.055 | 0.055 | 0.051 | 0.050 | 0.047 | 0.047 | 0.075 | 0.075 | 0.075 | 0.053 | 0.045 | 0.053 | 0.003 |  |  |  |
| 26 | B. ovata, AY603400 | 0.059 | 0.059 | 0.059 | 0.061 | 0.059 | 0.059 | 0.059 | 0.059 | 0.053 | 0.053 | 0.057 | 0.056 | 0.055 | 0.050 | 0.049 | 0.049 | 0.049 | 0.085 | 0.085 | 0.085 | 0.048 | 0.040 | 0.053 | 0.018 | 0.018 |  |  |
| 27 | B. bovis, JX495403 | 0.128 | 0.128 | 0.128 | 0.127 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.129 | 0.128 | 0.127 | 0.127 | 0.131 | 0.130 | 0.116 | 0.116 | 0.145 | 0.145 | 0.145 | 0.122 | 0.118 | 0.116 | 0.123 | 0.120 | 0.124 |  |
| 28 | B. bovis, AY603398 | 0.124 | 0.124 | 0.124 | 0.123 | 0.124 | 0.124 | 0.124 | 0.124 | 0.134 | 0.134 | 0.134 | 0.125 | 0.124 | 0.127 | 0.126 | 0.118 | 0.118 | 0.148 | 0.147 | 0.147 | 0.123 | 0.118 | 0.120 | 0.123 | 0.120 | 0.125 | 0.020 |