|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Strain Dehong-13 | Strain Dehong-17 | Strain Honghe-3 | Strain Honghe-71 | Strain Honghe-94 |
| 16S | 99.91%*Rickettsia raoultii* isolate Tomsk, *Rickettsia conorii* str. Malish 7 | 99.91%*Rickettsia raoultii* isolate Tomsk, *Rickettsia conorii* str. Malish 7 | 99.91%*Rickettsia raoultii* isolate Tomsk, *Rickettsia conorii* str. Malish 7 | 99.91%*Rickettsia raoultii* isolate Tomsk, *Rickettsia conorii* str. Malish 7 | 99.91%*Rickettsia raoultii* isolate Tomsk, *Rickettsia conorii* str. Malish 7 |
| *gltA* | 99.40%*Rickettsia massiliae* MTU5*Rickettsia rhipicephali* str. HJ#5 | 99.40%*Rickettsia massiliae* MTU5*Rickettsia rhipicephali* str. HJ#5 | 99.30%*Rickettsia massiliae* MTU5*Rickettsia rhipicephali* str. HJ#5 | 99.40%*Rickettsia massiliae* MTU5*Rickettsia rhipicephali* str. HJ#5 | 99.40%*Rickettsia massiliae* MTU5*Rickettsia rhipicephali* str. HJ#5 |
| *groEL* | 99.42%*R. rhipicephali* str. HJ#5 | 99.42%*R. rhipicephali* str. HJ#5 | 99.42%*R. rhipicephali* str. HJ#5 | 99.42%*R. rhipicephali* str. HJ#5 | 99.42%*R. rhipicephali* str. HJ#5 |
| *ompA* | 98.31%*Rickettsia rhipicephali* str. 3-7-female6-CWPP | 98.31%*Rickettsia rhipicephali* str. 3-7-female6-CWPP | 98.31%*Rickettsia rhipicephali* str. 3-7-female6-CWPP | 98.31%*Rickettsia rhipicephali* str. 3-7-female6-CWPP | 98.31%*Rickettsia rhipicephali* str. 3-7-female6-CWPP |
| *ompB* | 98.16%*Rickettsia rhipicephali* str. 3-7-6 | 98.14%*Rickettsia rhipicephali* str. 3-7-6 | 98.20%*Rickettsia rhipicephali* str. 3-7-6 | 98.22%*Rickettsia rhipicephali* str. 3-7-6 | — |
| *sca4* | 98.29%*Rickettsia rhipicephali* str. 3-7-female6-CWPP | 98.37%*Rickettsia rhipicephali* str. 3-7-female6-CWPP | 98.14%*Rickettsia rhipicephali* str. 3-7-female6-CWPP | 98.10%*Rickettsia rhipicephali* str. 3-7-female6-CWPP | 98.14%*Rickettsia rhipicephali* str. 3-7-female6-CWPP |

Table S3. Nucleotide identity of 16S, *gltA*, *groEL*, *ompA*, *ompB*, and *sca4* genes of the “*Candidatus* Rickettsia shennongii” strains to formally validated *Rickettsia* strains in the Genbank Database.