Supplementary Table S3.*Maximum identity of Anaplasma and Ehrlichia 16S rRNA gene sequences detected in mammals and ticks by BLAST analysis.*

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| --- | --- | --- | --- |
| Host  | Number of sequences analized | Target Gene | % identity by BLAST analysis |
| *Leopardus pardalis* | 1 | 16SrRNA |  99%- Uncultured *Anaplasma* sp. clone Pocone Ac48 (KJ831219) |
| *Nasua nasua* | 7 | 16SrRNA | 99%- Uncultured *Anaplasma* sp. clone Pocone Ac48 (KJ831219) |
| *Cerdocyon thous* | 1 | 16SrRNA |  99%- Uncultured *Anaplasma* sp. clone Pocone Ac48 (KJ831219) |
| *Canis familiaris* | 2 | 16SrRNA | 100%- *Anaplasma platys* (KU500914)  |
| *Thrichomys fosteri* | 2 | 16SrRNA | 99%- Uncultured *Anaplasma* sp. clone Pocone Ac48 (KJ831219) |
| *Clyomys laticeps* | 1 | 16SrRNA | 99%- Uncultured *Anaplasma* sp. clone Pocone Ac48 (KJ831219) |
| *Thylamys macrurus* | 1 | 16SrRNA | 99%- Uncultured *Anaplasma* sp. clone Pocone Ac48 (KJ831219) |
| *Gracilinamus agilis* | 1 | 16SrRNA | 99%- *Anaplasma platys* (KU534873)  |
| *Amblyomma sculptum* nymph | 1 | 16SrRNA | 99%- Uncultured *Anaplasma* sp. clone Pocone Ac48 (KJ831219) |
| *Amblyomma sculptum* nymph | 1 | 16SrRNA | 99%- *Anaplasma phagocytophilum* str. Dog2 genome (CP006618)  |
| *Amblyomma ovale* | 1 | 16SrRNA | 98%- *Anaplasma phagocytophilum* clone HLAP260 (GU064900)  |
| *Cerdocyon thous* | 2 | 16SrRNA | 99%- *Ehrlichia* spp. *Neochen jubata*, Brazil (KX898136) |
| *Nasua nasua* | 1 | 16SrRNA | 100%- *Ehrlichia canis*, Malásia (KR920044) |
| *Canis familiaris* | 8 | 16SrRNA | 100%- *Ehrlichia canis*, Brazil (KR920044) |
| *Thrichomys fosteri* | 4 | 16SrRNA | 100% - Uncultured *Ehrlichia* sp., *Cerdocyon thous*, Brazil (JQ260861) |
| *Oecomys mamorae* | 4 | 16SrRNA | 100% - Uncultured *Ehrlichia* sp., *Cerdocyon thous*, Brazil (JQ260861) |
| *Gracilinamus agilis* | 2 | 16SrRNA | 99% - Uncultured *Ehrlichia* sp., *Rhipicephalus sanguineus* (JN121379) |
| *Monodelphis domestica* | 2 | 16SrRNA | 99%- *Ehrlichia* spp. *Neochen jubata*, Brazil (KX898136) |
| *Thylamys macrurus* | 3 | 16SrRNA | 99%- *Ehrlichia* spp. *Neochen jubata*, Brazil (KX898136) |
| *Polygenis (Polygenis) bohlsi bohlsi* | 1 | 16SrRNA | 99%- Uncultured *Ehrlichia* sp. clone jaguarundi, Brasil (JQ260855) |
| *Amblyomma sculptum* nymphal pool | 13 | 16SrRNA | 99%- *Ehrlichia* spp. *Neochen jubata*, Brazil (KX898136) |
| *Amblyomma sculptum* | 8 | 16SrRNA | 99%- *Ehrlichia* spp. *Neochen jubata*, Brazil (KX898136) |
| *Amblyomma parvum* | 4 | 16SrRNA | 99%- *Ehrlichia canis*, Brazil (KR920044) |
| *Amblyomma* spp. larvae pool | 2 | 16SrRNA | 99%- *Ehrlichia* spp. *Neochen jubata*, Brazil (KX898136) |