Supplementary Table S1. Primers for PCR amplification of *T. musculi* (Tm) maxicircle

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| --- | --- | --- | --- | --- |
| Primer name | Forward Primer (5’ →3’) | Reserve Primer (5’ →3’) | Region | Length (bp) |
| Tm Frag-1 | AAACTATTCTTCCCATCTTACAA | CTGGCATCCATTTCTGACTA | 33470-1438 | 2575 |
| Tm Frag-2 | AGTACAATTCGTTAGTTGGGTT | GGGGTAGAGAAGGAGGAGAT | 1060-2493 | 1434 |
| Tm Frag-3 | AGGTTGCCCTCTTGTCGTCA | TCCCGTGTTCCTCCTTTCG | 2216-4089 | 1874 |
| Tm Frag-4 | TTACCCGTTTCAGCACAGG | TCCTACTCAATGGGATGTCTTC | 2909-5561 | 2653 |
|  |  |  |  |  |
| Tm Frag-5 | TGGACCAGAGGAGGTTGAAG | AGCGTTATGTTAGCATGTTTGT | 3892-5999 | 2108 |
| Tm Frag-6 | GAAGACATCCCATTGAGTAGG | GTGAGAGTGAATTAGTTGCAGG | 5540-7436 | 1897 |
| Tm Frag-7 | AAAGGTGAGGAAACCCATAAC | TCCCACCTATTTCACATACACC | 7171-8986 | 1816 |
| Tm Frag-8 | CCAGGAAGGTGTAATGAGGT | ACTGAAGAGGGAATGGGTGT | 8620-11718 | 3099 |
| Tm Frag-9 | GGTAGGAGGGTGATGTATTATTG | GATTTGTTATCTGTTAGTGGCG | 9046-12028 | 2983 |
| Tm Frag-10 | GCACACCGCATCCTACTAAC | TGTAGCCTATGTATGGTTATGAA | 11931-13093 | 1163 |
| Tm Frag-11 | TGTTCGCAATAAAGTATCCG | ACTACTAAGGTAGCCGCATGT | 12694-14685 | 1992 |
| Tm Frag-12 | ACAGCATACTGCGGTTGAG | AGTGGATTCATACACCCATAAC | 14327-16247 | 1921 |
| MURF2 | TAAGAAGTTTTGATTGAGTCG | CAGATGGCATTAAAACGAAAC | 8775-10211 (8-1444) | 1437 |
| ND5 | TGCGGCTACCTTAGTAGTGT | CAAGTCTTTACAATAAAACCCAC | 14668-16387 (739-2458) | 1720 |
| ND4 | GTTTTTGTTTTGCGATTGAT | TGTAGCCTATGTATGGTTATGAA | 12504-13093 (76-665) | 590 |

Supplementary Table S2. Accession numbers of trypanosomatidae species sequences used in the work.

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| Species (Strain) | Accession numbers |
| *Trypanosoma cruzi* (CL) | DQ343645.1 |
| *Trypanosoma cruzi* (TCC) | MN904528.1 |
| *Trypanosoma cruzi* (Dm28c) | MN904527.1 |
| *Trypanosoma cruzi* (Esmeraldo) | DQ343646.1 |
|  |  |
| *Trypanosoma cruzi* (marinkellei) | KC427240.1 |
| *Trypanosoma cruzi* (Y) | MW421591.1 |
| *Trypanosoma conorhini* (025E) | MKKU01000412.1 |
| *Trypanosoma rangeli* (SC58) | KJ803830.1 |
| *Trypanosoma musculi* (Partinico II) | OM000218 |
| *Trypanosoma lewisi* (CPO02) | KR072974, OM000219 |
| *Trypanosoma copemani* (G1) | MG948557.1 |
| *Trypanosoma grayi* (ANR4) | OM049542 |
| *Trypanosoma theileri* (Edinburgh) | GCF\_002087225.1 |
| *Trypanosoma brucei* (EATRO 1125) | MK584625.1 |
| *Trypanosoma brucei* (EATRO 427) | M94286.1 |
| *Trypanosoma brucei rhodesiense* | OM049543 |
| *Trypanosoma brucei* (Lister 427) | MN904526.1 |
| *Trypanosoma brucei equiperdum* (OVI) | CZPT02000280.1 |
| *Trypanosoma brucei equiperdum* (STIB 818) | EU185799.1 |
| *Trypanosoma congolense* (IL3000) | GCA\_003013265.1 |
| *Trypanosoma vivax* (IB) | MT090069.1 |
| *Trypanosoma vivax* (Y486) | MT090068.1 |
| *Leishmania tarentolae* (LT/KD) | MK514114.1 |