



**Supplementary Figure S1.** Representative ML phylogenetic tree constructed from *Bodo* 18S rRNA partial sequences (**243 bp**). Numbers represent bootstrap support generated from 1000 replications. Values above 60% are indicated. GenBank accession numbers in brackets. Sequences from this study are in bold type.

**Supplementary Table S1.** *Trypanosoma* and *Bodo* sequences generated in [22] and the present study.

Sample ID	<i>Trypanosoma</i> sp.	Tick species	Tick life stage	Status	Accession number
2018QT9	<i>T. copemani</i>	<i>I. myrmecobii</i>	Female	Questing	MW881302
2018QT12	<i>T. copemani</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881303
2018QT33	<i>T. copemani</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881304
2018QT34	<i>T. copemani</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881305
2018QT35	<i>T. copemani</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881306
2018QT45	<i>T. copemani</i>	<i>A. triguttatum</i>	Female	Questing	MW881307
2018QT57	<i>T. copemani</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881308
2018QT65	<i>T. copemani</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881309
2018QT79	<i>T. copemani</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881310
2018QT75	<i>T. copemani</i>	<i>A. triguttatum</i>	Male	Questing	MW881311
2018QT78	<i>T. copemani</i>	<i>A. triguttatum</i>	Female	Questing	MW881312
2018QT78	<i>T. copemani</i>	<i>A. triguttatum</i>	Female	Questing	MW881313
2018QT86	<i>T. copemani</i>	<i>A. triguttatum</i>	Male	Questing	MW881314

2018QT109	<i>T. copemani</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881315
2018FT26	<i>T. copemani</i>	<i>I. australiensis</i>	Female	Feeding	MW881316
2018FT31b	<i>T. copemani</i>	<i>I. australiensis</i>	Nymph	Feeding	MW881317
2018FTJ5	<i>T. copemani</i>	<i>I. tasmani</i>	Nymph	Feeding	MW881318
2018FTJ9	<i>T. copemani</i>	<i>I. myrmecobii</i>	Nymph	Feeding	MW881319
2018FTJ11	<i>T. copemani</i>	<i>I. woyliei</i>	Female	Feeding	MW881320
2018FT31	<i>T. copemani</i>	<i>I. tasmani</i>	Nymph	Feeding	MW881321
2018QT26	<i>T. noyesi</i>	<i>A. triguttatum</i>	Nymph	Questing	MW079253
2018QT34	<i>T. noyesi</i>	<i>A. triguttatum</i>	Nymph	Questing	MW079254
2018QT50	<i>T. noyesi</i>	<i>A. triguttatum</i>	Nymph	Questing	MW079255
2018QT51	<i>T. noyesi</i>	<i>A. triguttatum</i>	Nymph	Questing	MW079256
2018QT66	<i>T. noyesi</i>	<i>A. triguttatum</i>	Nymph	Questing	MW079257
2018QT69	<i>T. noyesi</i>	<i>A. triguttatum</i>	Nymph	Questing	MW079258
2018FT4	<i>T. noyesi</i>	<i>A. triguttatum</i>	Nymph	Feeding	MW881322
2018QT13	<i>T. vegrandis/T. gilletti</i>	<i>I. australiensis</i>	Male	Questing	MW881323

2018QT32	<i>T. vegrandis/T. gilletti</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881324
2018QT62	<i>T. vegrandis/T. gilletti</i>	<i>A. triguttatum</i>	Male	Questing	MW881325
2018QT63	<i>T. vegrandis/T. gilletti</i>	<i>A. triguttatum</i>	Female	Questing	MW881326
2018QT77	<i>T. vegrandis/T. gilletti</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881327
2018QT84	<i>T. vegrandis/T. gilletti</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881328
2018QT91	<i>T. vegrandis/T. gilletti</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881329
2018QT100	<i>T. vegrandis/T. gilletti</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881330
2018QT104	<i>T. vegrandis/T. gilletti</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881331
2018QT111	<i>T. vegrandis/T. gilletti</i>	<i>I. australiensis</i>	Female	Questing	MW881332
2018QT118	<i>T. vegrandis/T. gilletti</i>	<i>A. triguttatum</i>	Nymph	Questing	MW881333
2018QT122	<i>T. vegrandis/T. gilletti</i>	<i>I. australiensis</i>	Nymph	Questing	MW881334
2018FT6a	<i>T. vegrandis/T. gilletti</i>	<i>Amblyomma</i> spp.	Larva	Feeding	MW881335
2018FT7b	<i>T. vegrandis/T. gilletti</i>	<i>Amblyomma</i> spp.	Larva	Feeding	MW881336
2018FT30a	<i>T. vegrandis/T. gilletti</i>	<i>I. tasmani</i>	Nymph	Feeding	MW881337
2018FT31a	<i>T. vegrandis/T. gilletti</i>	<i>I. australiensis</i>	Nymph	Feeding	MW881338

2018FT55	<i>T. vegrandis/T. gilletti</i>	<i>I. myrmecobii</i>	Female	Feeding	MW881339
2018FTJ7	<i>T. vegrandis/T. gilletti</i>	<i>I. tasmani</i>	Nymph	Feeding	MW881340
2018FTJ14	<i>T. vegrandis/T. gilletti</i>	<i>I. woyliei</i>	Female	Feeding	MW881341
2018FTJ19	<i>T. vegrandis/T. gilletti</i>	<i>I. myrmecobii</i>	Female	Feeding	MW881342
2018FTJ21	<i>T. vegrandis/T. gilletti</i>	<i>I. tasmani</i>	Nymph	Feeding	MW881343
2018FTJ26	<i>T. vegrandis/T. gilletti</i>	<i>I. australiensis</i>	Nymph	Feeding	MW881344
2018FTJ28	<i>T. vegrandis/T. gilletti</i>	<i>Amblyomma</i> spp.	Larva	Feeding	MW881345
2018QT20	<i>Trypanosoma</i> sp. ANU2	<i>A. triguttatum</i>	Nymph	Questing	MW881346
2018FTJ20	<i>Trypanosoma</i> sp. ANU2	<i>I. myrmecobii</i>	Female	Feeding	MW881347
2018FTJ25	<i>Trypanosoma</i> sp. ANU2	<i>I. myrmecobii</i>	Female	Feeding	MW881348
2018FTJ29	<i>Trypanosoma</i> sp. ANU2	<i>Ixodes</i> spp.	Larva	Feeding	MW881349
2018QT3	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669864
2018QT25	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669865
2018QT28	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669866
2018QT37	<i>Bodo</i> sp.	<i>I. myrmecobii</i>	Female	Questing	MZ669867

2018QT39	<i>Bodo</i> sp.	<i>I. australiensis</i>	Male	Questing	MZ669868
2018QT44	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669869
2018QT64	<i>Bodo</i> sp.	<i>I. australiensis</i>	Nymph	Questing	MZ669870
2018QT72	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Male	Questing	MZ669871
2018QT90	<i>Bodo</i> sp.	<i>I. myrmecobii</i>	Female	Questing	MZ669872
2018QT93	<i>Bodo</i> sp.	<i>I. australiensis</i>	Male	Questing	MZ669873
2018QT96	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669874
2018QT97	<i>Bodo</i> sp.	<i>A. triguttatum</i>	female	Questing	MZ669875
2018QT101	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669876
2018QT106	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669877
2018QT107	<i>Bodo</i> sp.	<i>I. australiensis</i>	Male	Questing	MZ669878
2018QT113	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669879
2018QTW1	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669880
2018QTJ12	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669881
2018QTJ17	<i>Bodo</i> sp.	<i>A. triguttatum</i>	Nymph	Questing	MZ669882

