

SUPPLEMENTARY MATERIALS

Diversity and phylogeny of the tick-borne bacterial genus *Candidatus*

Alloccryptoplasma (Anaplasmataceae)

Table S1. List and origin of tick species used in this study for multi-locus typing of *Ca.*

Alloccryptoplasma.

Tick species	Origine	n (larvae/nymph /adult)	Reference for tick collection and 16S rDNA metabarcoding
<i>Ixodes ricinus</i>	Niedermunster Forest, France, Europe, 2020	10 (0/0/10)	[3]
<i>Amblyomma coelebs</i>	Montagne de Kaw, French Guiana, South America, 2016	1 (0/1/0)	[1,2]
<i>Amblyomma tholloni</i>	Kibale National Park, Uganda, Africa, 2019-2020	12 (0/12/0)	[4]
<i>Haemaphysalis parmata</i>	Kibale National Park, Uganda, Africa, 2019-2021	3 (0/2/1)	[4]

Table S2. Genes and primers used in polymerase chain reaction (PCR) assays for multi-locus typing of *Ca.* *Alloccryptoplasma*.

Gene	Product	Primers (5'-3')	Fragment size	Reference
16S rrNA	Small ribosomal subunit (SSU rRNA)	Ehr16S_F1 - TCCTATTAGATGAGCCTA Ehr16S_F2 - TGACATGAAGGTCGTATCC Ehr16S_R1 - GGTCCAGCCGAAGTACTC Ehr16S_R2 - AGCACACCAGCTTCGAGTTA Ehr16S_R3 - AGTTAAGCCAATCCCATGG	1st round PCR: Ehr16S_F1 / Ehr16S_R2 : 1200bp 2nd round PCR (fragment 1): Ehr16S_F1 / Ehr16S_R1 : 796bp 2nd round PCR (fragment 2): Ehr16S_F2 / Ehr16S_R3 : 457bp	[4]
<i>rpoB</i>	DNA-directed RNA polymerase β chain	Crypto_rpoB_F1 - GATGGRACCTCTGTGATAT Crypto_rpoB_F2 - CTGTTGATATTRTRCTTAATTC Crypto_rpoB_R1 - GGACCNACAGAYCTWGCATGTA Crypto_rpoB_R2 - CGYTGMCACCAAAAATGAGA	1st round PCR: Crypto_rpoB_F1 / Crypto_rpoB_R2 : 536bp 2d round PCR: Crypto_rpoB_F2 / Crypto_rpoB_R1 : 469bp	This study
<i>sucA</i>	Alpha-ketoglutarate dehydrogenase	Crypto_sucA_F1 - GTTATGGGNTTTGAGTAYGG Crypto_sucA_F2 - TGGWGATTTTGCWAATGGTGC Crypto_sucA_R1 - CTACCTCTGCATTCTGATA Crypto_sucA_R2 - GGGCTCTTCYTGRACCA	1st round PCR: Crypto_sucA_F1 / Crypto_sucA_R2 : 636bp 2d round PCR: Crypto_sucA_F1 / Crypto_sucA_R1 : 616bp Alternative 2d round PCR: Crypto_sucA_F2 / Crypto_sucA_R1 : 548bp	This study
<i>groEL</i>	Chaperone protein GroEL (Hsp60)	Crypto_GroEL_F1 - CCTTCYTCAACAGCAGCYCTAG Crypto_GroEL_F2 - ACAGCAACVCCACCWGAWAGCTT Crypto_GroEL_R1 - ACYGATGGTATGCAGTTTGA Crypto_GroEL_R2 - ACNGTTGAAGARAGTAARGG	1st round PCR: Crypto_GroEL_F1 / Crypto_GroEL_R2 : 713bp 2d round PCR: Crypto_GroEL_F2 / Crypto_GroEL_R1 : 572bp	This study
<i>gltA</i>	Citrate synthase	Crypto_gltA_F1 - ATTACGTTTATWGAYGGGGAT Crypto_gltA_F2 - GTTATAGAGGATATGACATAG Crypto_gltA_F3 - AGAACTTTNTTCACATGATGTT Crypto_gltA_R2 - AATYTCATACCATTGAGCAGAC	1st round PCR: Crypto_gltA_F1 / Crypto_gltA_R2 : 1011bp 2d round PCR: Crypto_gltA_F2 / Crypto_gltA_R2 : 977bp Alternative 2d round PCR: Crypto_gltA_F3 / Crypto_gltA_R2 : 606 bp	This study

References

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