

S2 Appendix. Phylogenetic analyses

A comparative approach for species delimitation based on multiple methods of multi-locus DNA sequence analysis: a case study of the genus *Giraffa* (Mammalia, Cetartiodactyla)

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Table A. Overview of the 82 haplotypes used for the mitochondrial analyses, including their code, accession number, and the list of individuals. In case of independent upload of *cytochrome b* and *D-Loop* sequence, respective accession numbers are separated by slash (*cytochrome b* / *D-Loop*).

n	Haplotype	Representative individual	Σ	Geographic origin (frequency)	Accession numbers
1	RET1	EU088319_ <i>reticulata</i> _3	22	Ol Jogi, Laikipia, Kenya (7); Pyramid, Kenya (5); Sweetwaters, Laikipia, Kenya (1); Meru NP, Kenya (5); Samburu NR, Kenya (2); Stuttgart Zoo, Germany (2)	EU088319: MeruReG10, SamburuRe4810, MeruReG11, MeruReG3, OlJogiReR8, MeruReG9, OlJogiRe27, SweetwaRe8, PyramidRe9, PyramidRe11, PyramidRe12, SamburuRe5, PyramidRe5, OlJogiRe13, OlJogiRe9, MeruReG7, OlJogiReR5, PyramidRe7, OlJogiRe15, OlJogiRe2; LT628387/ LT628414; MG262296/ MG257963
2	RET2	RET_RetNue3	1	Nuernberg Zoo (1)	LT628410/ LT628383
3	RET3	EU088320_ <i>reticulata</i> _4	15	Ol Jogi, Laikipia, Kenya (4); Pyramid, Kenya (2); Sweetwaters, Laikipia, Kenya (2); Samburu NR, Kenya (7)	EU088320: SamburuRe4812, SamburuRe4813, SamburuRe4816, OlJogiReR6, SamburuRe4815, SamburuRe4818, SamburuRe4819, OlJogiRe25, SweetwaRe1, SweetwaRe2, OlJogiRe10, OlJogiRe12, PyramidRe3, SamburuRe4, PyramidRe8
4	RET4	EU088322_ <i>reticulata</i> _6	13	Ol Jogi, Laikipia, Kenya (3); Pyramid, Kenya (2); Sweetwaters, Laikipia, Kenya (6); Meru NP, Kenya (1); Samburu NR, Kenya (1)	EU088322: SamburuRe4817, OlJogiRe21, MeruReG4, SweetwaReGS44, SweetwaRe6, SweetwaReGS43, SweetwaRe11, SweetwaRe5, SweetwaRe4, OlJogiRe3, PyramidRe10, PyramidRe1, OlJogiRe4
5	RET5	EF442272_ <i>reticulata</i> _Zenith	7	Singean African Reserve, France (2); Nuernberg Zoo, Germany (3); Pyramid, Kenya (1); Rotterdam Zoo, Netherlands (1)	EF442272: Zenith, Désirée; EU088325: PyramidRe4; LT628409/ LT628382; LT628411/ LT628384; LT628413/ LT628386; MG262293/ MG257960

6	RET6	EU088324_ <i>reticulata</i> _8	2	Pyramid, Laikipia, Kenya (2)	EU088324: PyramidRe2, PyramidRe6
7	RET7	EU088323_ <i>reticulata</i> _7	2	Sweetwaters, Laikipia, Kenya (1); Rotterdam Zoo, Netherlands (1)	EU088323; MG262294/ MG257961
8	RET8	RET_RetNue5	3	Nuernberg Zoo, Germany (1); Rotterdam Zoo, Netherlands (1); Loisaba Wildlife Conservancy, Kenya (1)	LT628412/ LT628385; MG262295/ MG257962; MG262285/ MG257952
9	RET9	EU088321_ <i>reticulata</i> _5	1	?	?
10	RET10	<i>reticulata</i> _ISC03	1	Ishqbini Conservancy, Kenya (1)	KY865164/ KY865127
11	RET11	<i>reticulata</i> _ISC04	1	Ishqbini Conservancy, Kenya (1)	KY865165/ KY865128
12	RET12	<i>reticulata</i> _ISC05	1	Ishqbini Conservancy, Kenya (1)	KY865166/ KY865129
13	RET13	<i>reticulata</i> _ISC08	1	Ishqbini Conservancy, Kenya (1)	KY865167/ KY865130
14	PER1	EF442274_ <i>peralta</i>	28	Harikanassou Region, Niger (15); Koure, Niger (12); Niamey-Dosso Road, Niger (1)	EU088317: Niger15, Niger16, Niger17, Niger19, Niger10, Niger22, Niger23, Niger28, Niger7, Niger12, Niger13, Niger14, Niger2B, Niger3C, Niger21; EF442274: PER1, PER2, PER3, DOSSO; HG975175/ HG975277; HG975176/ HG975278; HG975180/ HG975282; HG975181/ HG975283; HG975183/ HG975285; HG975184/ HG975286; HG975185/ HG975287; MG262299/ MG257966; MG262297/ MG257964
15	PER2	<i>peralta</i> _WA36	1	Koure, Niger (1)	HG975177/ HG975279
16	PER3	<i>peralta</i> _WA623	2	Koure, Niger (2)	HG975186/ HG975288; HG975188/ HG975290
17	PER4	EU088318_ <i>peralta</i> _2	12	Harikanassou Region, Niger (7); Koure, Niger (5)	EU088318: Niger20, Niger26, Niger27, Niger18, Niger5, Niger1A, Niger4D; HG975178/ HG975280; HG975182/ HG975284; HG975187/ HG975289; MG262301/ MG257968; MG262300/ MG257967
18	PER5	<i>peralta</i> _WA705	1	Koure, Niger (1)	MG262298/ MG257965

19	ROTH1	EF442273_rothschildi_Roby	59	Nakuru NP; Kenya (7); Ruma, Kenya (9); Thoiry Zoological Park, France (1); La Palmyre Zoo, France (1); Murchison Falls NP, Uganda (41)	EF442273: Eole_1137, Roby_A4216; EU088326: NakuruRoGN13, NakuruRoGN15, RumaRoGR33, RumaRoGR34, RumaRoGR38, RumaRoGR39, RumaRoGR40, NakuruRoGN16, NakuruRoGN18, NakuruRoGN19, NakuruRoGN23, NakuruRoGN28, RumaRoGR36, RumaRoGR37, RumaRoGR42, RumaRoGR31, MFNPF3Roth, MFNPF4Roth, MFNPF5Roth, MFNPF7Roth, MFNPF9Roth, MFNPF10Roth, MFNPF12Roth, MFNPF13Roth, MFNPF11Roth, MFNPF14Roth, MFNPF15Roth, MFNPF16Roth, MFNPM1Roth, MFNPM2Roth, MFNPM3Roth, MFNPM4Roth, MFNPM5Roth, MFNPM8Roth, MFNPM17Roth, MFNPM18Roth, MFNPM19Roth, MFNPM20Roth, MFNPM22Roth, MFNPM23Roth, MFNPM24Roth; HG975130/ HG975232; HG975131/ HG975233; HG975132/ HG975234; HG975133/ HG975235; HG975134/ HG975236; HG975135/ HG975237; HG975136/ HG975238; HG975137/ HG975239; HG975138/ HG975240; MG262286/ MG257953; MG262287/ MG257954; MG262288/ MG257955; MG262289/ MG257956; MG262290/ MG257957; MG262291/ MG257958; MG262292/ MG257959
20	ROTH2	EU088327_rothschildi_11	2	Nakuru NP, Kenya (1); Ruma, Kenya (1)	EU088327: NakuruRoGN14, RumaRoGR32
21	ROTH3	EU088328_rothschildi_12	8	Ruma, Kenya (2); Nakuru NP, Kenya (6)	EU088328: NakuruRoGN24, RumaRoGR41, NakuruRoGN17, NakuruRoGN20, NakuruRoGN22, NakuruRoGN29, NakuruRoGN30, RumaRoGR35
22	CAM1	camelopardalis_BaNP4	1	Badingilo National Park, South Sudan (1)	LT628396/ LT628369
23	CAM2	camelopardalis_ETH1	1	Gambella National Park, Ethiopia (1)	LT628397/ LT628370
24	CAM3	camelopardalis_BaNP3	1	Badingilo National Park, South Sudan (1)	LT628395/ LT628368
25	CAM4	camelopardalis_ETH2	2	Gambella National Park, Ethiopia (2)	MG262281/ MG257948; MG262282/ MG257949
26	ANT1	antiquorum_GNP04	2	Garamba National Park, DRC (2)	HG975129/ HG975231; MG262284/ MG25795
27	ANT2	EF442265_antiquorum_Rafiki	2	Vincennes Zoo, Paris (2)	EF442265: Rafiki_ZA4128, Uma_ZA4124
28	ANT3	EF442268_antiquorum_Waza	3	Waza NP, Cameroon (2), Boubou Njida NP, Cameroon (1)	EF442268: WAZA1, WAZA2, BOUBA
29	ANT4	EF442266_antiquorum_Zakouma	2	Zakouma NP, Chad (2)	EF442266: ZAK1, ZAK2
30	ANT5	antiquorum_ZNP01	1	Zakouma NP, Chad (1)	HG975179/ HG975281
31	ANT6	EF442267_antiquorum_Sarah	3	Antwerp Zoo, Belgium (1); Vincennes Zoo, France (1); Shambe National Park, South Sudan (1)	EF442267: Sarah_M9271, Valere_M9633B; LT628417/ LT628390
32	ANT7	antiquorum_SNR1	4	Shambe National Park, South Sudan (1); Garamba National Park, Democratic Republic of Congo (DRC) (3)	LT628389/ LT628416; HG975127/ HG975229; HG975128/ HG975230; MG262283/ MG257950

33	THO1	<i>thornicrofti</i> _LVNP8_01	34	Luangwa Valley NP, Zambia (34)	HF571134 - HF571167 / HF571176 - HF571209
34	TIP1	EU088330_ <i>tippelskirchi</i> _14	16	Seronera Serengeti NP, Tanzania (3); Ndotu Serengeti NP, Tanzania (7); Lobo Serengeti NP, Tanzania (4); Manyara NP, Tanzania (2)	EU088330: SeroneraM1404, SeroneraM4735, SeroneraM4741, NdotuM4860, NdotuM4861, NdotuM4858, NdotuM4865, NdotuM4864, NdotuM4868, NdotuM4869, Lobo2097, Lobo2054, Lobo2067, Lobo2068, Manyara4845, Manyara4846
35	TIP2	EU088337_ <i>tippelskirchi</i> _21	3	Seronera Serengeti NP, Tanzania (1); Ndotu Serengeti NP, Tanzania (2)	EU088337: SeroneraM4743, NdotuM4862, NdotuM4870
36	TIP3	EU088340_ <i>tippelskirchi</i> _24	1	Lobo Serengeti NP, Tanzania (1)	EU088340
37	TIP4	EU088338_ <i>tippelskirchi</i> _22	3	Ndotu Serengeti NP, Tanzania (2); Ngorongoro Serengeti NP, Tanzania (1)	EU088338: NdotuM4859, NdotuM4867, NgorongoroM4903
38	TIP5	EU088339_ <i>tippelskirchi</i> _23	1	Varicho, Serengeti NP; Tanzania (1)	EU088339
39	TIP6	EF442269_ <i>tippelskirchi</i> _Saburi	36	Basel Zoo, Switzerland (2); Athi River Ranch, Kenya (5); Chyulu Hills, Kenya (13); Manyara NP, Tanzania (5); Lake Naivasha, Tanzania (4); Tarangire NP; Tanzania (7)	EF442269: Wari_990681, Saburi_950677; EU088329: TarangireM2244, TarangireM2232, ChyuluM21, AthiM7, ChyuluM12, ChyuluM22, ChyuluM5, AthiM6, AthiM3, AthiM14, ChyuluM1, ChyuluM11, ChyuluM17, ChyuluM18, ChyuluM19, ChyuluM2, ChyuluM24, ChyuluM6, NaivashaM5021, NaivashaM5026, NaivashaM5022, ManyaraM4848, Chyulu16, TarangireM2245, TarangireM2274, AthiM24, TarangireM2234, TarangireM2236, TarangireM2267, NaivashaM5018, Manyara4841, Manyara4842, Manyara4843, Manyara4847
40	TIP7	EU088335_ <i>tippelskirchi</i> _19	1	Athi River Ranch Kenya (1)	EU088335
41	TIP8	<i>tippelskirchi</i> _SGR01	6	Selous Game Reserve, Tanzania (6)	HG975158/ HG975260; HG975159/ HG975261; HG975160/ HG975262; HG975161/ HG975263; HG975162/ HG975264; HG975163/ HG975265
42	TIP9	EU088342_ <i>tippelskirchi</i> _26	2	Tarangire NP, Tanzania (2)	EU088342: TarangireM2265, TarangireM2251
43	TIP10	EU088331_ <i>tippelskirchi</i> _15	7	Chyulu Hills, Kenya (2); Manyara NP, Tanzania (2); Tarangire NP, Tanzania (1); Lake Naivasha, Tanzania (2)	EU088331: TarangireM2271, ChyuluM23, ChyuluM4, NaivashaM5016, NaivashaM5017, Manyara4840, Manyara4839
44	TIP11	EU088333_ <i>tippelskirchi</i> _17	2	Athi River Ranch, Kenya (2)	EU088333: AthiM18, AthiM1
45	TIP12	EU088332_ <i>tippelskirchi</i> _16	1	Tarangire NP, Tanzania (1)	EU088332
46	TIP13	EU088341_ <i>tippelskirchi</i> _25	2	Tarangire NP, Tanzania (2)	EU088341: TarangireM2237, TarangireM2259
47	TIP14	EU088336_ <i>tippelskirchi</i> _20	1	Chyulu Hills, Kenya (1)	EU088336
48	TIP15	EU088334_ <i>tippelskirchi</i> _18	9	Athi River Ranch, Kenya (9)	EU088334: AthiM8, AthiM21, AthiM5, AthiM13, AthiM2, AthiM11, AthiM15, AthiM22, AthiM23

				EF442271; EU088343: Botswana903, Kruger9, Kruger5, Kruger7, Kruger8, Kruger20, Kruger25, Kruger27, Kruger1, Kruger12, Kruger14; HF571212; HF571215; HF571216; HG975203; HG975207; HG975208; HG975209; HG975211; HG975241; HG975245; HG975247; HG975248; HG975255; HG975257; HG975258; HG975266; HG975267; HG975268; HG975269; HG975270; HG975271; HG975273; HG975274; HG975275; HG975276; LT628398/ LT628371; LT628399/ LT628372; LT628400/ LT628373; LT628401/ LT628374; LT628402/ LT628375; LT628404/ LT628377; LT628405/ LT628378; LT628406/ LT628379; LT628407/ LT628380; LT628408/ LT62838; LT628418/ LT628391; LT628419/ LT628392; LT628420/ LT628393; LT628421/ LT628394
49	GFA1	EF442271_giraffa_Phalarborwa	51	Kruger National Park, South Africa (10); Serondella Zimbabwe (1); Phalabowa Limpopo, South Africa (1); Moremi Game Reserve, Botswana (5); Sun Hotel Livingstone, Zambia (4); Vumbura Concession, Botswana (10); Chobe National Park, Botswana (7); Mosi-oa-Tunya NP, Zambia (10); Khamab Kalahari Reserve, South Africa (3)
50	GFA2	giraffa_SNNP	1	Sioma Ngwezi NP, Zambia (1) LT628415/ LT628388
51	GFA3	giraffa_BW01	7	Bwabwata National Park, Namibia (7) HG975087/ HG975189; HG975088/ HG975190; HG975089/ HG975191; HG975090/ HG975192; HG975091/ HG975193; HG975092/ HG975194; HG975093/ HG975195
52	GFA4	giraffa_CNP9_08	1	Chobe NP, Botswana (1) HG975104/ HG975206
53	GFA5	giraffa_MGR9_20	1	Moremi Game Reserve, Botswana (1) HG975151/ HG975253
54	GFA6	giraffa_MTNP6	1	Mosi-oa-Tunya NP, Zambia (1) LT628403/ LT628376
55	GFA7	EF442270_giraffa_Tango	5	Thoiry Reserve, France (1); Kruger National Park, South Africa (1); Khamab Kalahari Reserve, South Africa (3) EF442270; EU088344: Kruger23; HG975152/ HG975254; HG975154/ HG975256; HG975157/ HG975259
56	GFA8	giraffa_CNP9_06	1	Chobe NP, Botswana (1) HG975102/ HG975204
57	GFA9	giraffa_CNP9_07	1	Chobe NP, Botswana (1) HG975103/ HG975205
58	GFA10	giraffa_MGR9_11	4	Moremi Game Reserve, Botswana (2); Chobe NP, Botswana (2) HF571168/ HF571210; HF571169/ HF571211; HF571175/ HF571217; HG975108/ HG975210
59	GFA11	giraffa_NXP9_01	2	Nxai Pans, Botswana (1); Vumbura Concession, Botswana (1) HF571171/ HF571213; HG975170/ HG975272
60	GFA12	giraffa_MGR9_05	1	Moremi Game Reserve, Botswana (1) HG975142/ HG975244
61	GFA13	giraffa_MGR9_02	7	Moremi Game Reserve, Botswana (7) HG975140/ HG975242; HG975141/ HG975243; HG975144/ HG975246; HG975147/ HG975249; HG975148/ HG975250; HG975149/ HG975251; HG975150/ HG975252
62	ANG1	EF442264_angolensis_Lisbon6A	4	Lisbon Zoo, Portugal (1); Etosha NP, Namibia (3) EF442264; HG975110/ HG975212; HG975112/ HG975224; HG975125/ HG975227
63	ANG2	EF442263_angolensis_Lisbon5A	7	Lisbon Zoo, Portugal (1); Etosha NP, Namibia (5); Hoarsib River, Namibia (1) EF442263; EU088350: HSBM3; HG975114/ HG975216; HG975116/ HG975218; HG975117/ HG975219; HG975119/ HG975221; HG975121/ HG975223
64	ANG3	angolensis_ENP08	2	Etosha NP, Namibia (2) HG975115/ HG975217; HG975120/ HG975222

65	ANG4	EU088345_angolensis_29	13	Etosha NP, Namibia (13)	EU088345: ENPF1, ENPF6, ENPF3, ENPF4, ENPM1, ENPM2, ENPM3, ENPM5, ENPF5, ENPF2; EU088349: ENPM7, ENPM4; HG975228
66	ANG5	EU088346_angolensis_30	2	Etosha NP, Namibia (1); Kamanjab, Namibia (1)	EU088346: ENPF7, KMJM1
67	ANG6	EU088347_angolensis_31	33	Hoanib River, Namibia (27); Hoarusib River, Namibia (2); Northwestern Namibia (4)	EU088347: HBNF1, HBNF2, HBNF3, HBNF4, HBNF6, HBNF7, HBNF8, HNB M7, HNB M3, HNB M4, HNB M5, HNB M8, HNB M6, KHBM1, KHBM2, KHBM3, KHB F1; KY865151/ KY865114; KY865152/ KY865115; KY865153/ KY865116; KY865154/ KY865117; KY865155/ KY865118; KY865156/ KY865119; KY865157/ KY865120; KY865158/ KY865121; KY865159/ KY865122; KY865160/ KY865123; KY865161/ KY865124; KY865162/ KY865125; KY865168/ KY865131; KY865171/ KY865134; KY865172/ KY865135; KY865173/ KY865136
68	ANG7	EU088348_angolensis_32	8	Etosha NP, Namibia (7); Hoanib River, Namibia (1)	EU088348: ENPM6, ENPF8; HG975111/ HG975213; HG975112/ HG975214; HG975113/ HG975215; HG975123/ HG975225; HG975124/ HG975226; KY865149/ KY865112
69	ANG8	EU088351_angolensis_35	3	Hoarusib River, Namibia (1); Northwestern Namibia (2)	EU088351; KY865170/ KY865133; KY865174/ KY865137
70	ANG9	angolensis_CKGR9_01	3	Central Kalahari Game Reserve, Botswana (3)	HG975094/ HG975196; HG975096/ HG975198; HG975098/ HG975200
71	ANG10	angolensis_CKGR9_05	1	Central Kalahari Game Reserve, Botswana (1)	HG975097/ HG975199
72	ANG11	angolensis_CKGR9_02	2	Central Kalahari Game Reserve, Botswana (2)	HG975095/ HG975197; HG975099/ HG975201
73	ANG12	angolensis_ENP13	1	Etosha NP, Namibia (1)	HG975118/ HG975220
74	ANG13	angolensis_CKGR9_08	1	Central Kalahari Game Reserve, Botswana (1)	HG975100/ HG975202
75	ANG14	angolensis_NWN03	1	Northwestern Namibia (1)	KY865169/ KY865132
76	ANG15	angolensis_HSB04	1	Hoarusib River, Namibia (1)	KY865163/ KY865126
77	ANG16	angolensis_HNB001	1	Hoanib River, Namibia (1)	KY865148/ KY865111
78	ANG17	angolensis_HNB102	1	Hoanib River, Namibia (1)	KY865150/ KY865113
79	ANG18	angolensis_BVC001	7	Bubye Valley Conservancy, Zimbabwe (7)	KY865138/ KY865101; KY865139/ KY865102; KY865140/ KY865103; KY865141/ KY865104; KY865143/ KY865106; KY865146/ KY865109; KY865147/ KY865110
80	ANG19	angolensis_BVC005	1	Bubye Valley Conservancy, Zimbabwe (1)	KY865142/ KY865105
81	ANG20	angolensis_BVC007	1	Bubye Valley Conservancy, Zimbabwe (1)	KY865144/ KY865107
82	ANG21	angolensis_BVC008	1	Bubye Valley Conservancy, Zimbabwe (1)	KY865145/ KY865108

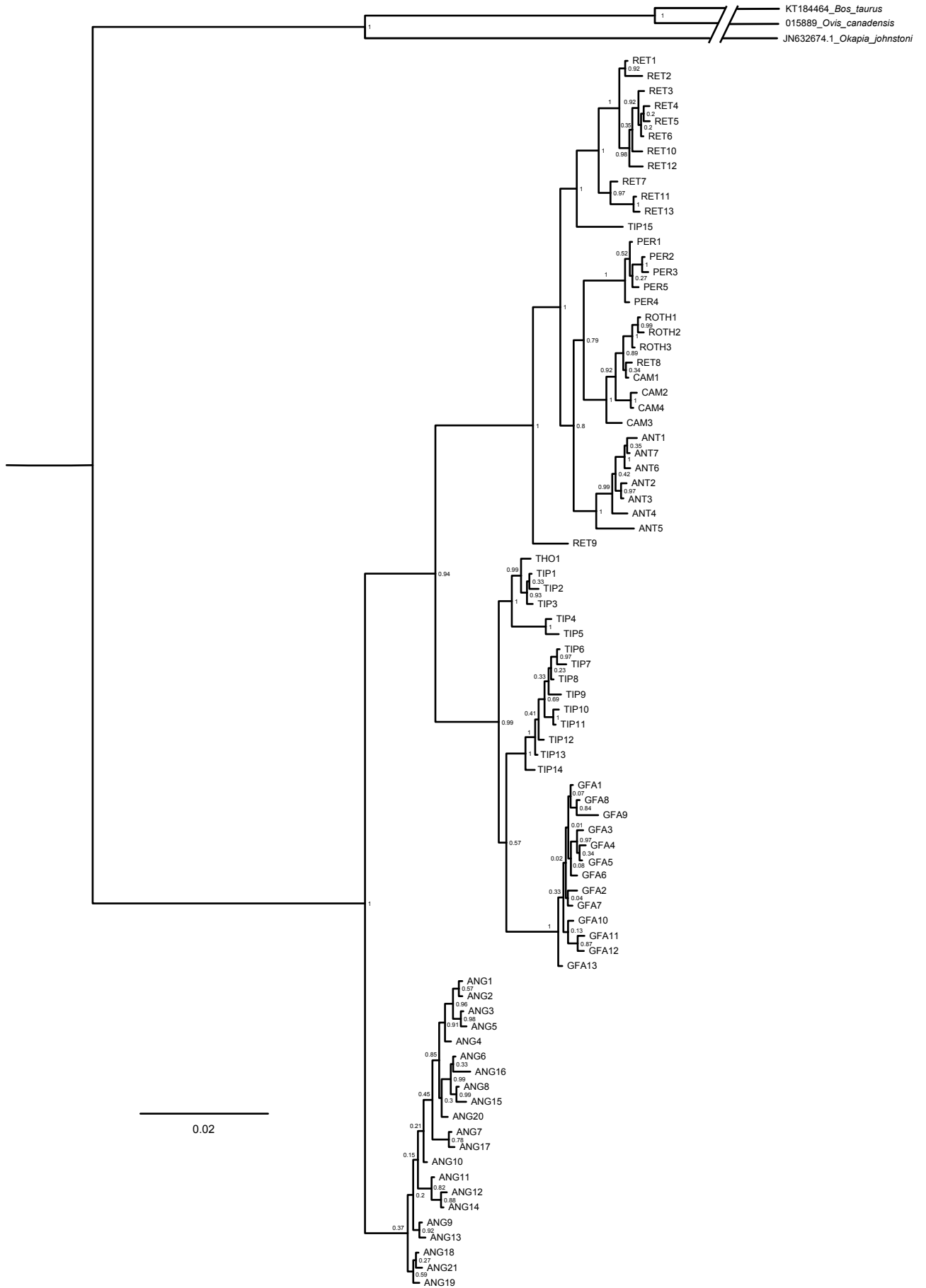


Fig A. Bayesian trees from the analyses of the mitochondrial fragment (*cytochrome b* and the partial 5' region) including 82 haplotypes of 507 giraffe individuals and three outgroup taxa. The posterior probability values are indicated for each node.

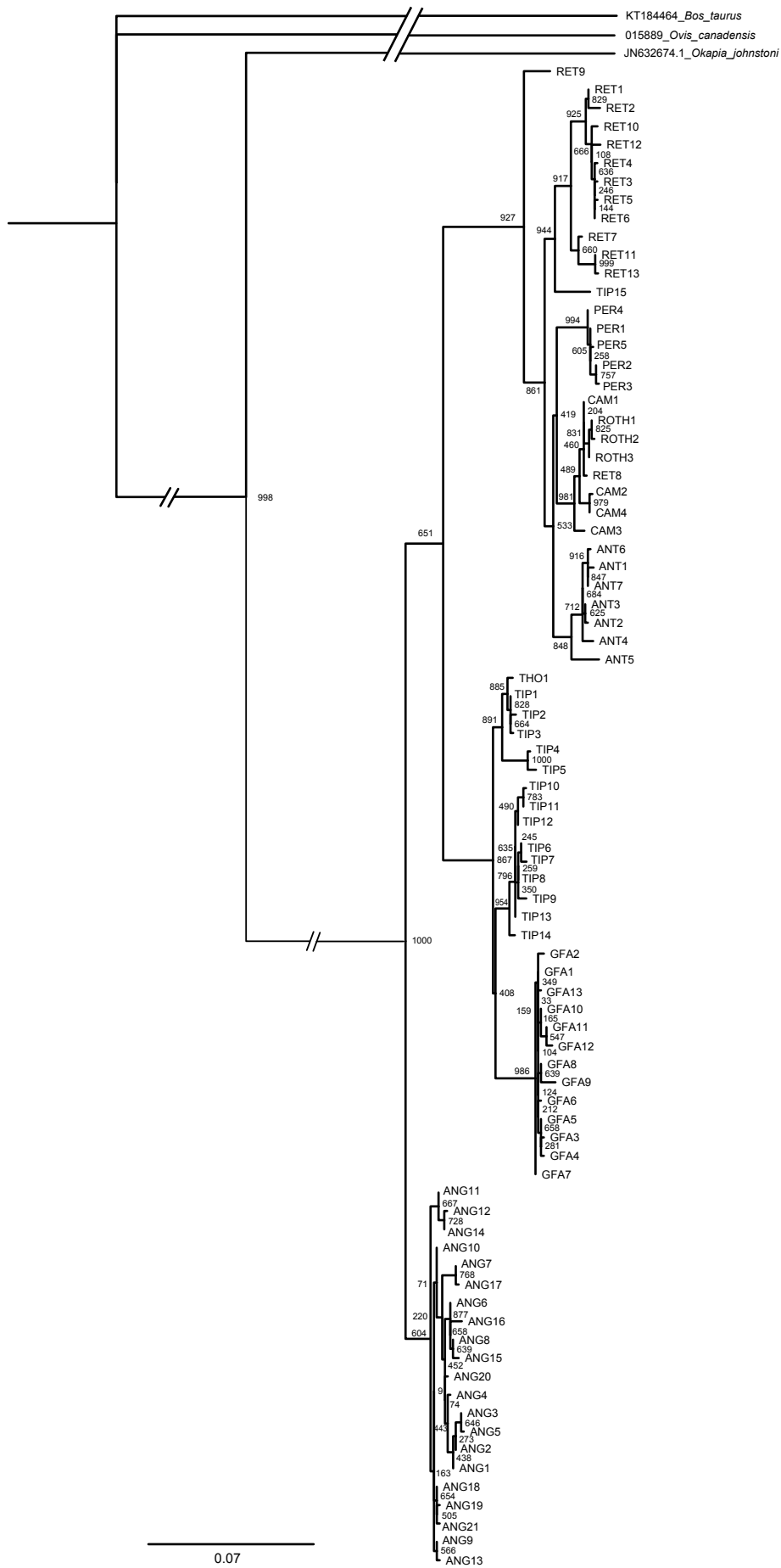


Fig B. PhyML trees from the Maximum Likelihood analyses of the mitochondrial fragment (*cytochrome b* and the partial 5' region) including 82 haplotypes from 507 giraffe individuals and three outgroup taxa.

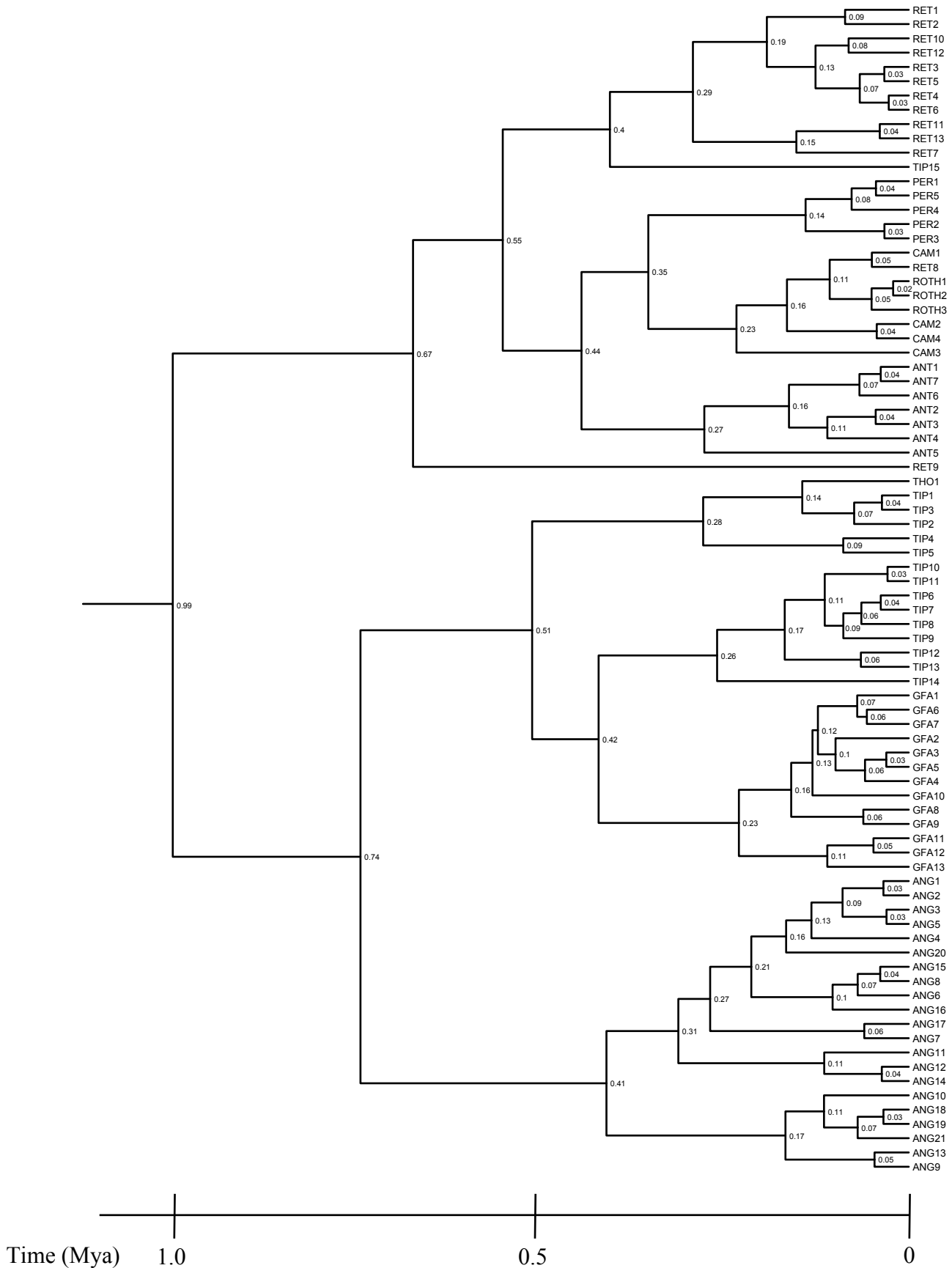


Fig C. Chronogram obtained from the analysis of the mitochondrial fragment (*cytochrome b* and the partial 5' region) including 82 giraffe haplotypes and three outgroup taxa (not shown). The datations were estimated using BEAST v.2.4.7 with the following priors: relaxed clock Log normal; calibration for the MRCA of Giraffa = 1 +/- 0.1 Mya ; Yule model; 100000000 generations; Log and tree every 10000.

Table B. Individual code, designation of subspecies and origin of 137 giraffes used in the phylogenetic and population structure analyses of the nuclear dataset

Individual	Subspecies designation	Origin
WA026	<i>peralta</i>	Koure, Niger
WA036	<i>peralta</i>	Koure, Niger
WA606	<i>peralta</i>	Koure, Niger
WA117	<i>peralta</i>	Koure, Niger
WA609	<i>peralta</i>	Koure, Niger
WA612	<i>peralta</i>	Koure, Niger
WA614	<i>peralta</i>	Koure, Niger
WA619	<i>peralta</i>	Koure, Niger
WA621	<i>peralta</i>	Koure, Niger
WA622	<i>peralta</i>	Koure, Niger
WA623	<i>peralta</i>	Koure, Niger
WA700	<i>peralta</i>	Koure, Niger
WA705	<i>peralta</i>	Koure, Niger
WA707	<i>peralta</i>	Koure, Niger
WA708	<i>peralta</i>	Koure, Niger
WA720	<i>peralta</i>	Koure, Niger
GNP01	<i>antiquorum</i>	Garamba National Park, DR Congo
GNP02	<i>antiquorum</i>	Garamba National Park, DR Congo
GNP03	<i>antiquorum</i>	Garamba National Park, DR Congo
GNP04	<i>antiquorum</i>	Garamba National Park, DR Congo
GNP05	<i>antiquorum</i>	Garamba National Park, DR Congo
SNR1	<i>antiquorum</i>	Shambe National Park, South Sudan
SNR2	<i>antiquorum</i>	Shambe National Park, South Sudan
ZNP01	<i>antiquorum</i>	Zakouma National Park, Chad
BaNP4	<i>camelopardalis</i>	Badingilo National Park, South Sudan
ETH1	<i>camelopardalis</i>	Gambella National, Ethiopia
ETH2	<i>camelopardalis</i>	Gambella National, Ethiopia
ETH3	<i>camelopardalis</i>	Gambella National, Ethiopia
MF01	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF02	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF03	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF04	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF05	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF06	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF07	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF09	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF11	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF13	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF14	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF15	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF16	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF17	<i>rothschildi</i>	Murchison Falls National Park, Uganda
MF24	<i>rothschildi</i>	Murchison Falls National Park, Uganda

RET1	<i>reticulata</i>	Zoo
RET3	<i>reticulata</i>	Zoo
RET4	<i>reticulata</i>	Zoo
RET5	<i>reticulata</i>	Zoo
RET6	<i>reticulata</i>	Zoo
RETWil	<i>reticulata</i>	Zoo
RETWil2	<i>reticulata</i>	Zoo
RETRot1	<i>reticulata</i>	Zoo
RETRot2	<i>reticulata</i>	Zoo
RETRot3	<i>reticulata</i>	Zoo
ISC03	<i>reticulata</i>	Ishqbini Conservancy, Kenya
ISC04	<i>reticulata</i>	Ishqbini Conservancy, Kenya
ISC08	<i>reticulata</i>	Ishqbini Conservancy, Kenya
LWC01	<i>reticulata</i>	Loisaba Wildlife Conservancy, Kenya
LVNP8_18	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_19	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_20	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_21	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_22	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_23a	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_31	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_32	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_33	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_34	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_35	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
LVNP8_36	<i>thornicrofti</i>	Luangwa Valley National Park, Zambia
SGR01	<i>tippelskirchi</i>	Selous Game Reserve, Tanzania
SGR05	<i>tippelskirchi</i>	Selous Game Reserve, Tanzania
SGR06	<i>tippelskirchi</i>	Selous Game Reserve, Tanzania
SGR07	<i>tippelskirchi</i>	Selous Game Reserve, Tanzania
SGR12	<i>tippelskirchi</i>	Selous Game Reserve, Tanzania
SGR13	<i>tippelskirchi</i>	Selous Game Reserve, Tanzania
SGR14	<i>tippelskirchi</i>	Selous Game Reserve, Tanzania
MTNP1	<i>giraffa</i>	Mosi-oa-Tunya National Park, Zambia
MTNP2	<i>giraffa</i>	Mosi-oa-Tunya National Park, Zambia
MTNP3	<i>giraffa</i>	Mosi-oa-Tunya National Park, Zambia
SNNP	<i>giraffa</i>	Sioma Ngwezi NP, Zambia
BNP01	<i>giraffa</i>	Bwabwata National Park, Namibia
BNP02	<i>giraffa</i>	Bwabwata National Park, Namibia
BNP03	<i>giraffa</i>	Bwabwata National Park, Namibia
BNP04	<i>giraffa</i>	Bwabwata National Park, Namibia
BNP05	<i>giraffa</i>	Bwabwata National Park, Namibia
BNP06	<i>giraffa</i>	Bwabwata National Park, Namibia
BNP09	<i>giraffa</i>	Bwabwata National Park, Namibia
CNP9_01	<i>giraffa</i>	Chobe National Park, Botswana
CNP9_02	<i>giraffa</i>	Chobe National Park, Botswana
CNP9_03	<i>giraffa</i>	Chobe National Park, Botswana

KKR01	<i>giraffa</i>	Khamab Kalahari Reserve, South Africa
KKR02	<i>giraffa</i>	Khamab Kalahari Reserve, South Africa
KKR03	<i>giraffa</i>	Khamab Kalahari Reserve, South Africa
KKR04	<i>giraffa</i>	Khamab Kalahari Reserve, South Africa
KKR05	<i>giraffa</i>	Khamab Kalahari Reserve, South Africa
KKR07	<i>giraffa</i>	Khamab Kalahari Reserve, South Africa
KKR08	<i>giraffa</i>	Khamab Kalahari Reserve, South Africa
MGR9_01	<i>giraffa</i>	Moremi Game Reserve, Botswana
MGR9_02	<i>giraffa</i>	Moremi Game Reserve, Botswana
MGR9_03	<i>giraffa</i>	Moremi Game Reserve, Botswana
MGR9_04	<i>giraffa</i>	Moremi Game Reserve, Botswana
MGR9_05	<i>giraffa</i>	Moremi Game Reserve, Botswana
SUN1	<i>giraffa</i>	Sun hotel, Livingstone, Zambia
SUN2	<i>giraffa</i>	Sun hotel, Livingstone, Zambia
SUN3	<i>giraffa</i>	Sun hotel, Livingstone, Zambia
SUN4	<i>giraffa</i>	Sun hotel, Livingstone, Zambia
V23	<i>giraffa</i>	Vumbura Concession, Botswana
V24	<i>giraffa</i>	Vumbura Concession, Botswana
V25	<i>giraffa</i>	Vumbura Concession, Botswana
V26	<i>giraffa</i>	Vumbura Concession, Botswana
V27	<i>giraffa</i>	Vumbura Concession, Botswana
V28	<i>giraffa</i>	Vumbura Concession, Botswana
V29	<i>giraffa</i>	Vumbura Concession, Botswana
V30	<i>giraffa</i>	Vumbura Concession, Botswana
V31	<i>giraffa</i>	Vumbura Concession, Botswana
V36	<i>giraffa</i>	Vumbura Concession, Botswana
V37	<i>giraffa</i>	Vumbura Concession, Botswana
V38	<i>giraffa</i>	Vumbura Concession, Botswana
V39	<i>giraffa</i>	Vumbura Concession, Botswana
CKGR9_01	<i>angolensis</i>	Central Kalahari Game Reserve, Botswana
CKGR9_02	<i>angolensis</i>	Central Kalahari Game Reserve, Botswana
CKGR9_03	<i>angolensis</i>	Central Kalahari Game Reserve, Botswana
CKGR9_05	<i>angolensis</i>	Central Kalahari Game Reserve, Botswana
ENP04	<i>angolensis</i>	Etosha National Park, Namibia
ENP07	<i>angolensis</i>	Etosha National Park, Namibia
ENP08	<i>angolensis</i>	Etosha National Park, Namibia
ENP09	<i>angolensis</i>	Etosha National Park, Namibia
ENP11	<i>angolensis</i>	Etosha National Park, Namibia
ENP12	<i>angolensis</i>	Etosha National Park, Namibia
ENP14	<i>angolensis</i>	Etosha National Park, Namibia
ENP15	<i>angolensis</i>	Etosha National Park, Namibia
ENP16	<i>angolensis</i>	Etosha National Park, Namibia
ENP17	<i>angolensis</i>	Etosha National Park, Namibia
ENP18	<i>angolensis</i>	Etosha National Park, Namibia
ENP19	<i>angolensis</i>	Etosha National Park, Namibia
ENP20	<i>angolensis</i>	Etosha National Park, Namibia
ENP21	<i>angolensis</i>	Etosha National Park, Namibia

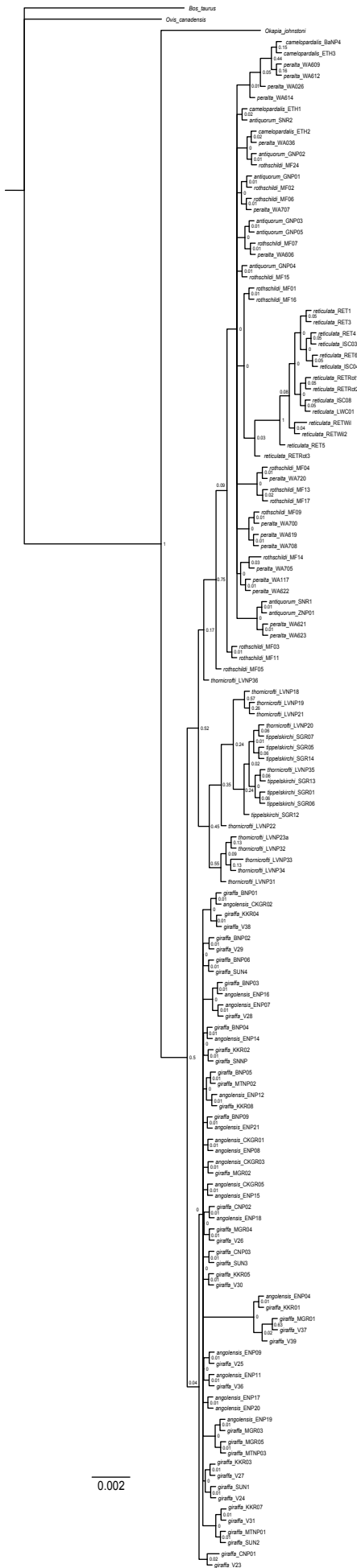


Fig D. Bayesian tree for the separate analysis of the 641 nucleotides (nt) long intron *ACP5* with the posterior probability values indicated for each node.

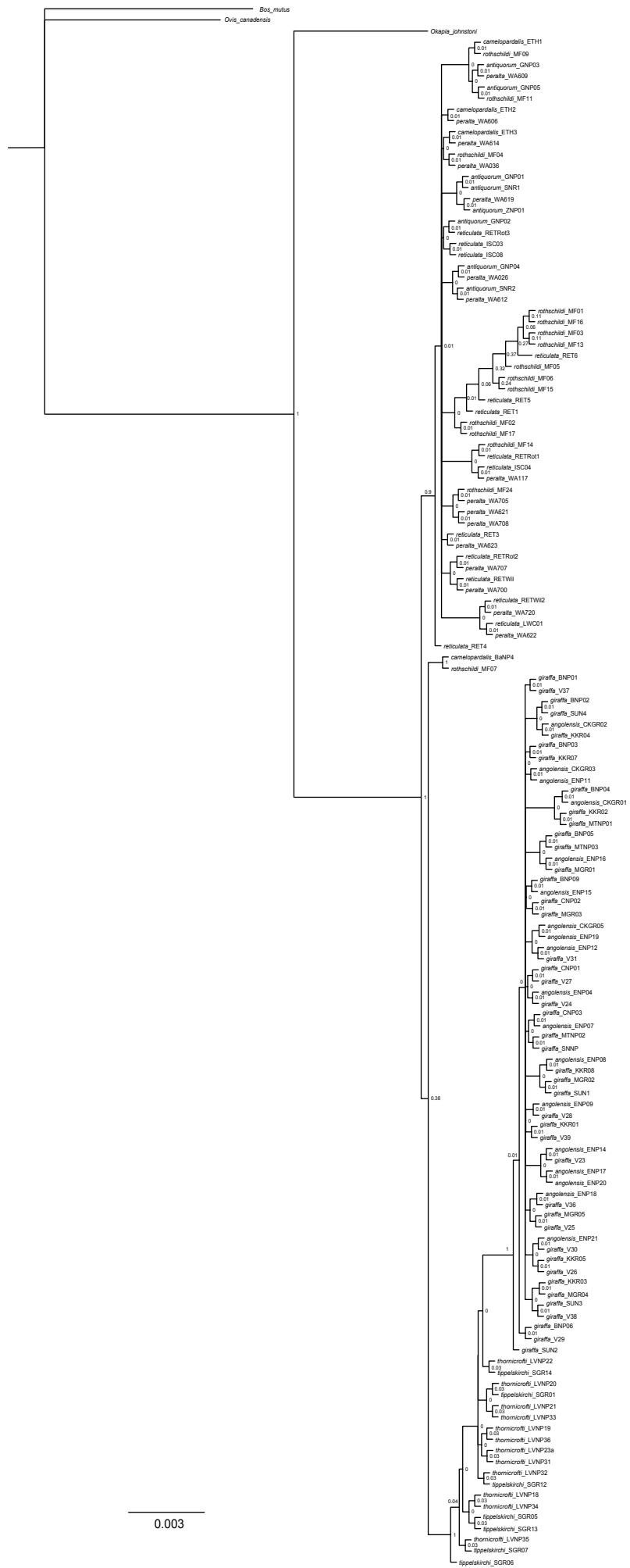


Fig E. Bayesian tree for the separate analysis of the 897 nucleotides (nt) long intron *Clorf74* with the posterior probability values indicated for each node.

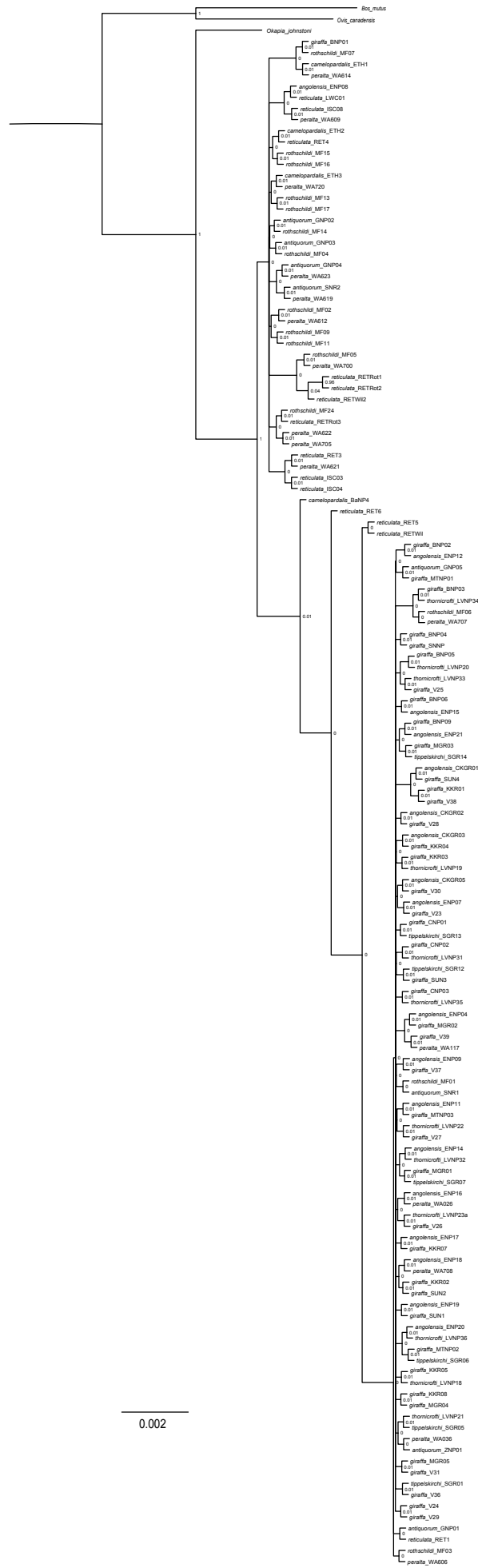


Fig F. Bayesian tree for the separate analysis of the 826 nucleotides (nt) long intron *CCT2* with the posterior probability values indicated for each node.

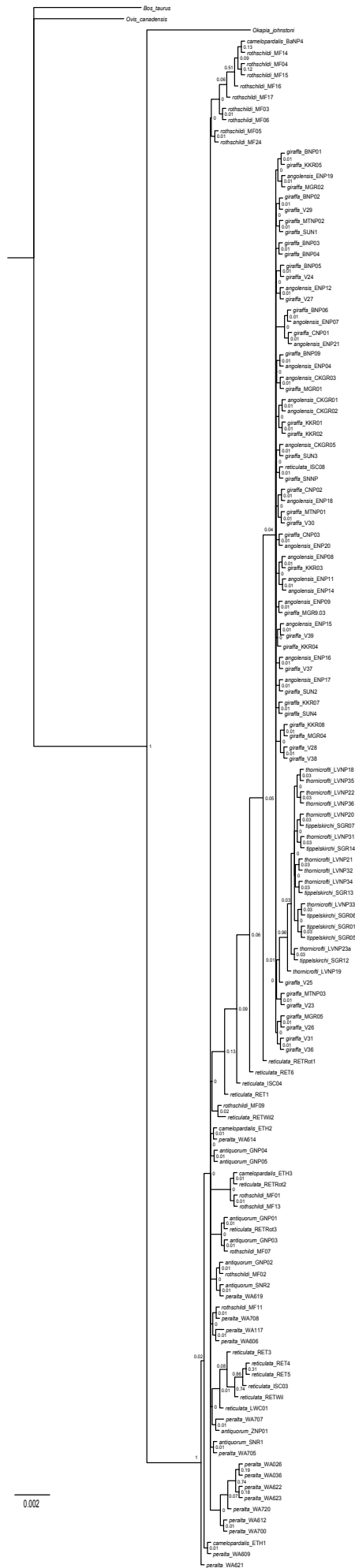


Fig G. Bayesian tree for the separate analysis of the 881 nucleotides (nt) long intron *COL5A2* with the posterior probability values indicated for each node.

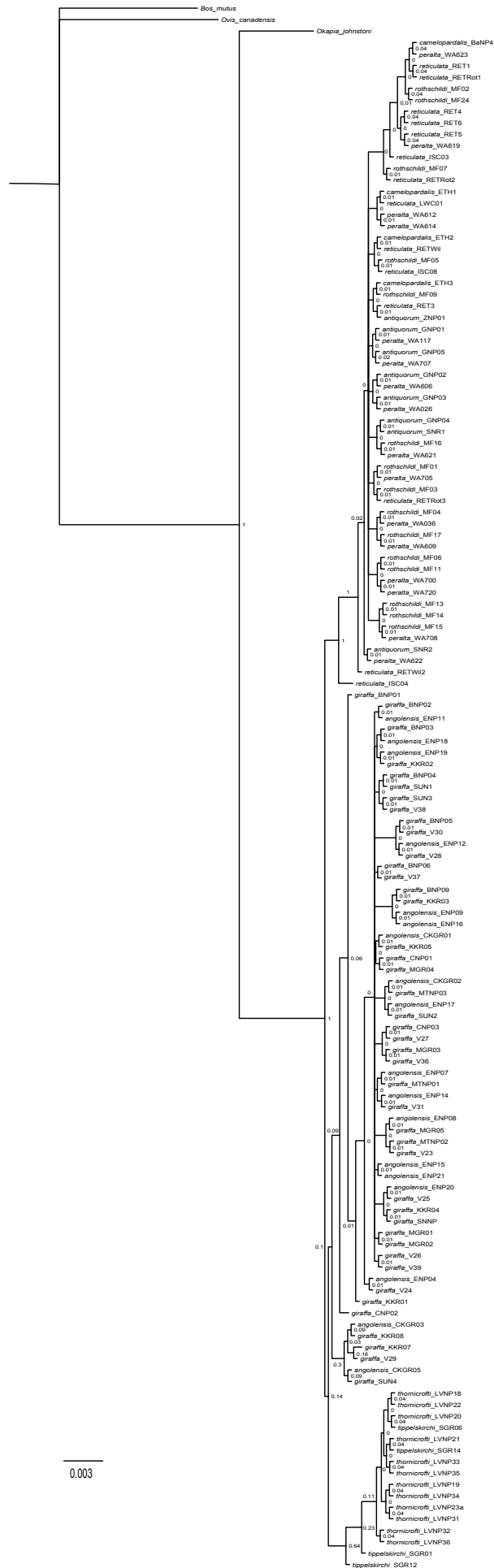


Fig H. Bayesian tree for the separate analysis of the 862 nucleotides (nt) long intron *CTAGE5* with the posterior probability values indicated for each node.

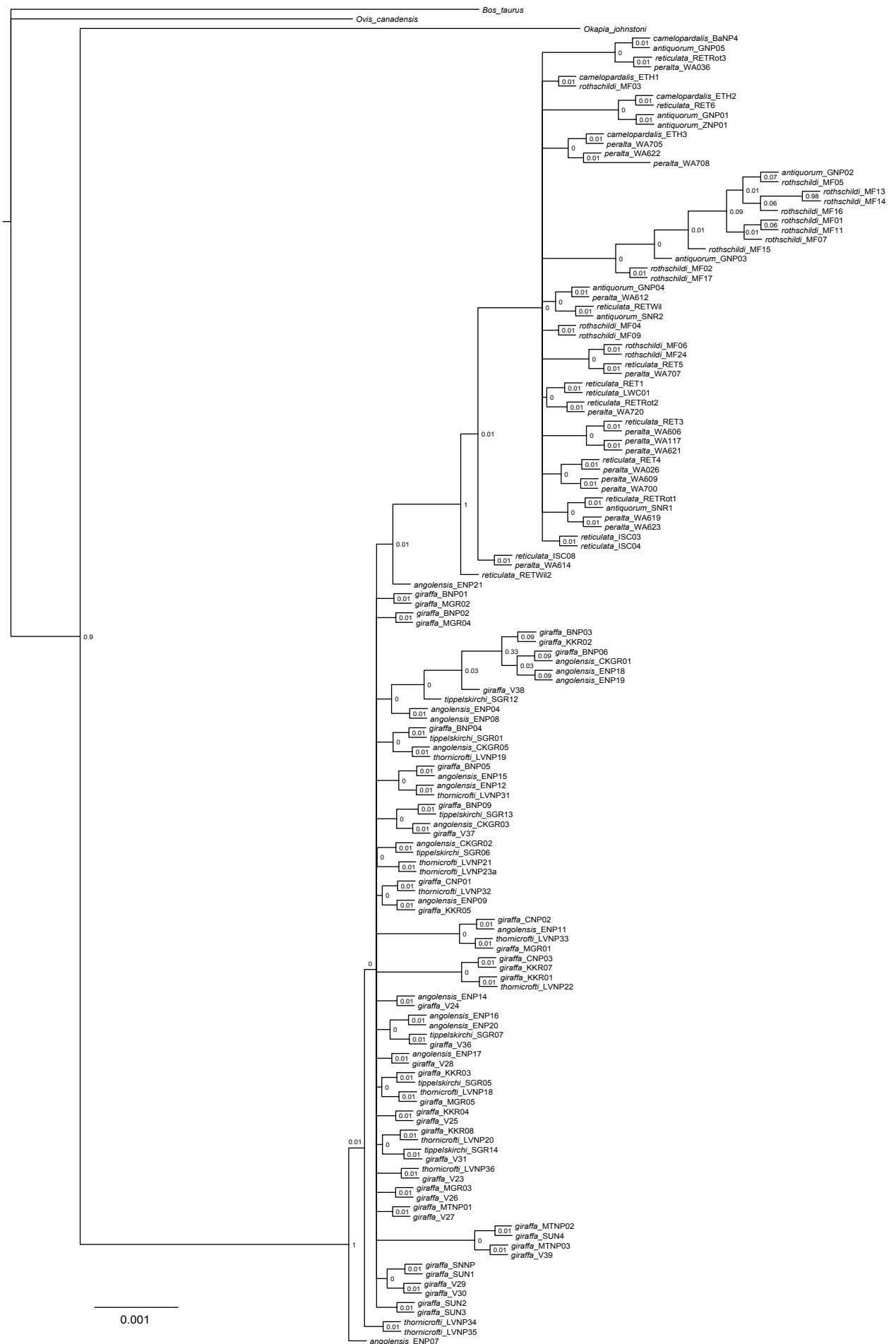


Fig I. Bayesian tree for the separate analysis of the 703 nucleotides (nt) long intron *CWF19L1* with the posterior probability values indicated for each node.

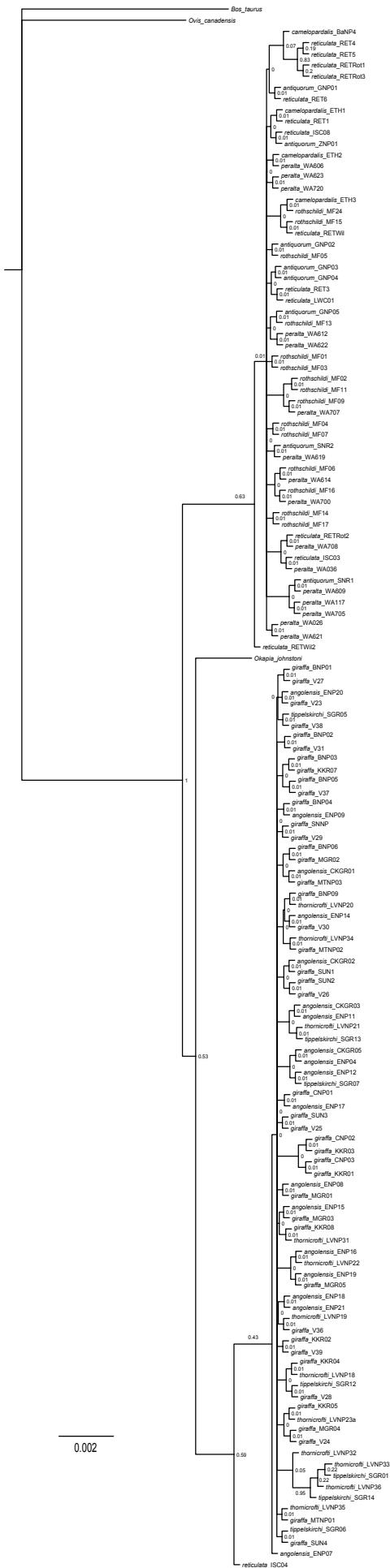


Fig J. Bayesian tree for the separate analysis of the 740 nucleotides (nt) long intron *DDX1* with the posterior probability values indicated for each node.



Fig K. Bayesian tree for the separate analysis of the 821 nucleotides (nt) long intron *DHX36* with the posterior probability values indicated for each node.

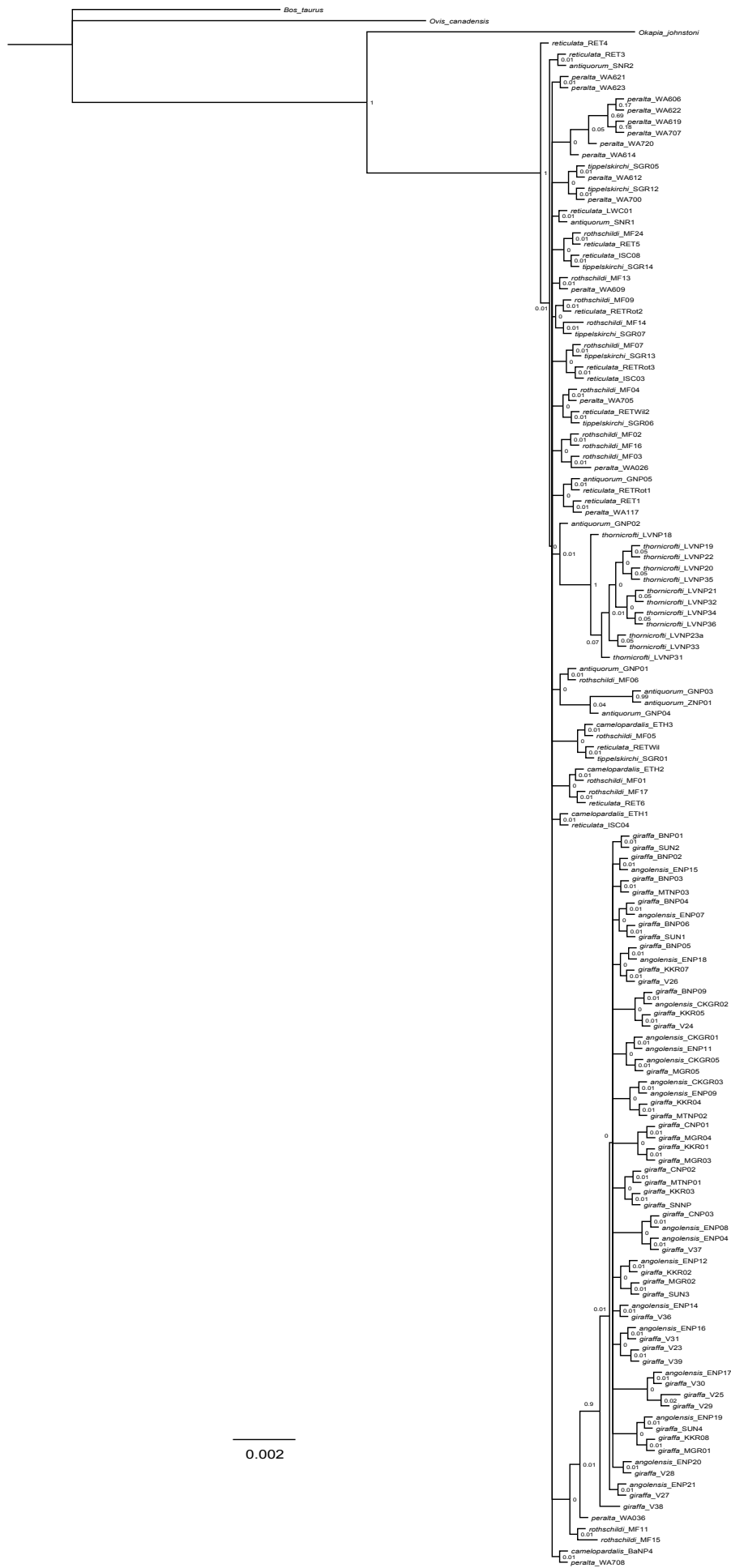


Fig L. Bayesian tree for the separate analysis of the 820 nucleotides (nt) long intron *IGF2B1* with the posterior probability values indicated for each node.

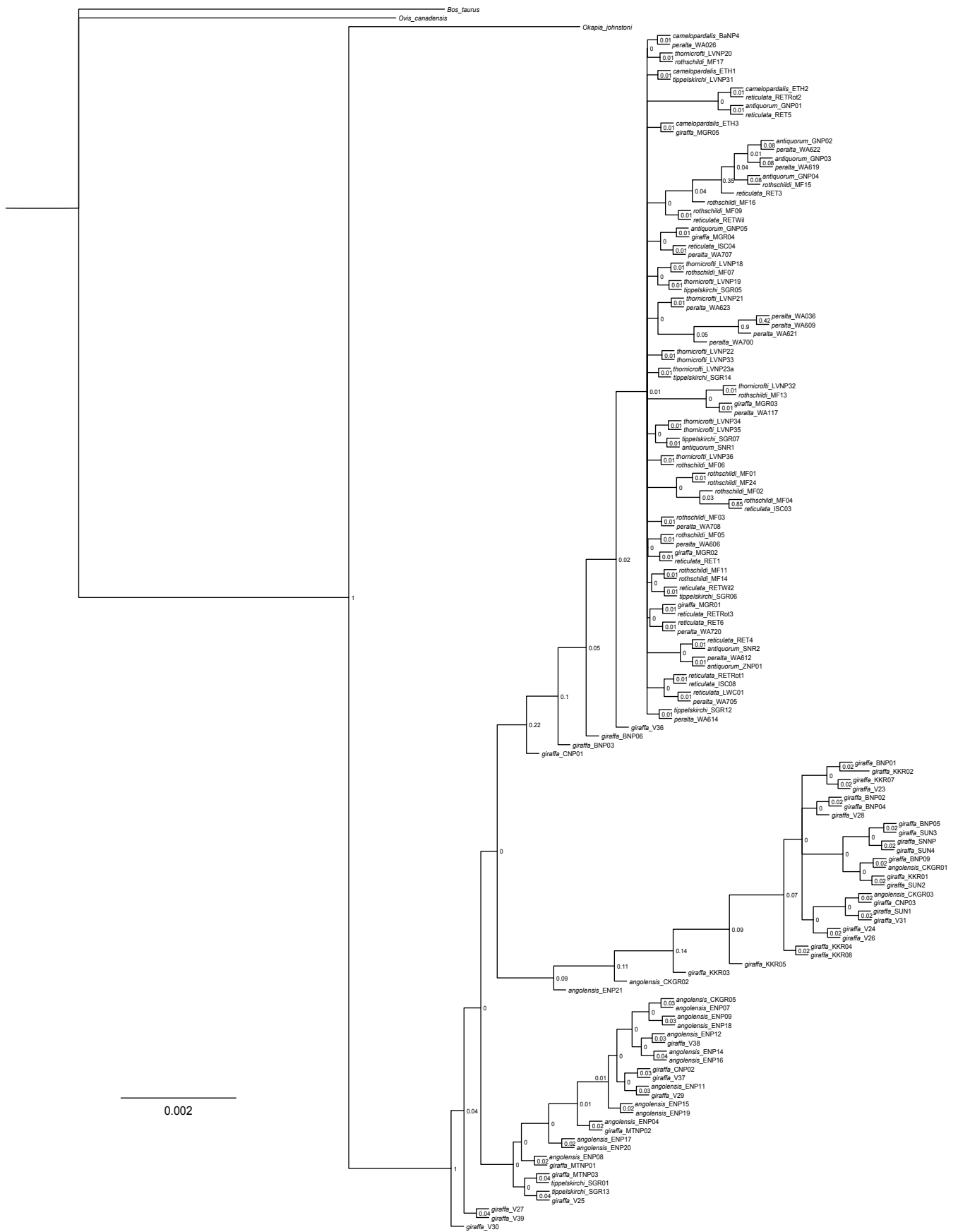


Fig M. Bayesian tree for the separate analysis of the 719 nucleotides (nt) long intron *MACF1* with the posterior probability values indicated for each node.

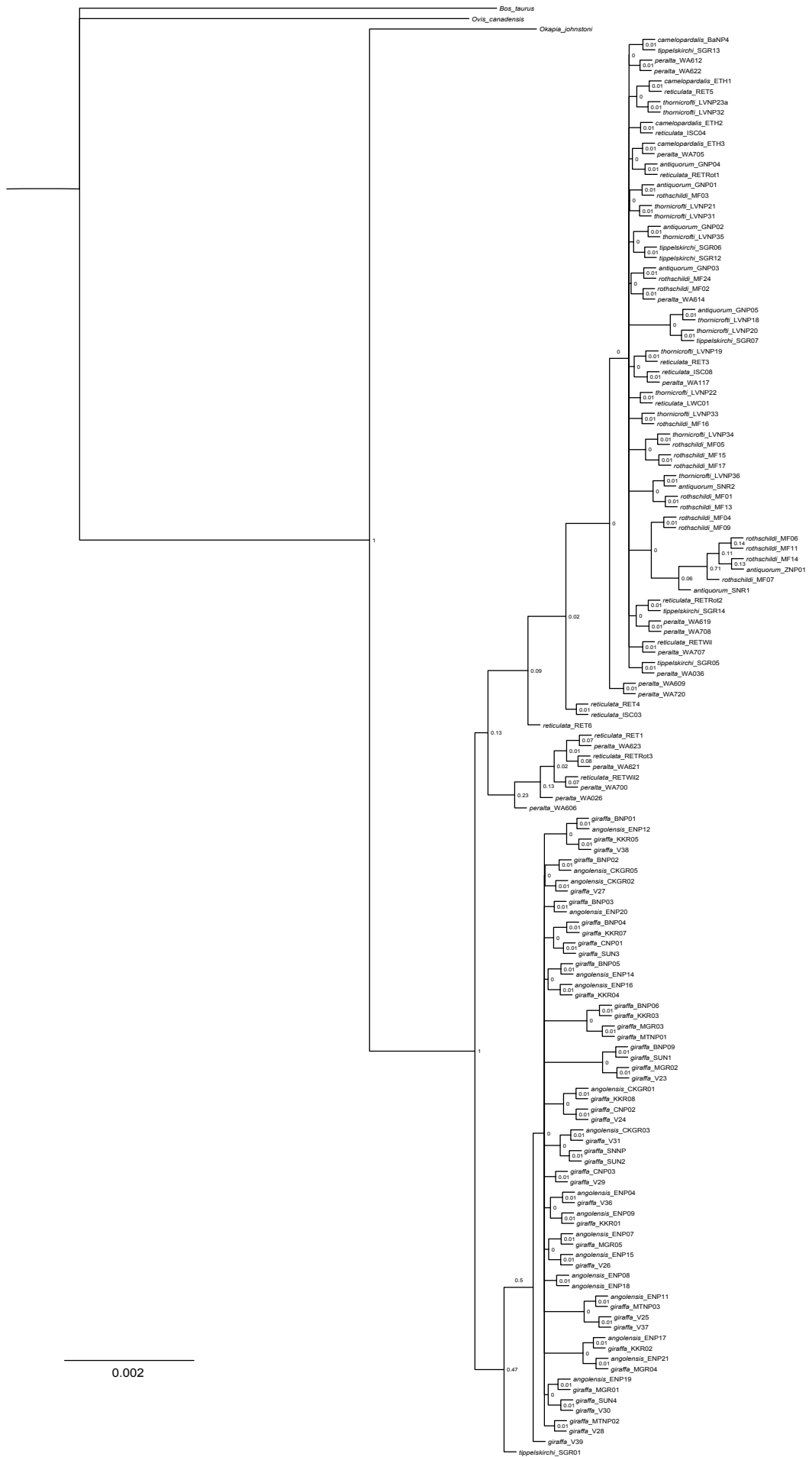


Fig N. Bayesian tree for the separate analysis of the 885 nucleotides (nt) long intron *NOTCH2* with the posterior probability values indicated for each node.

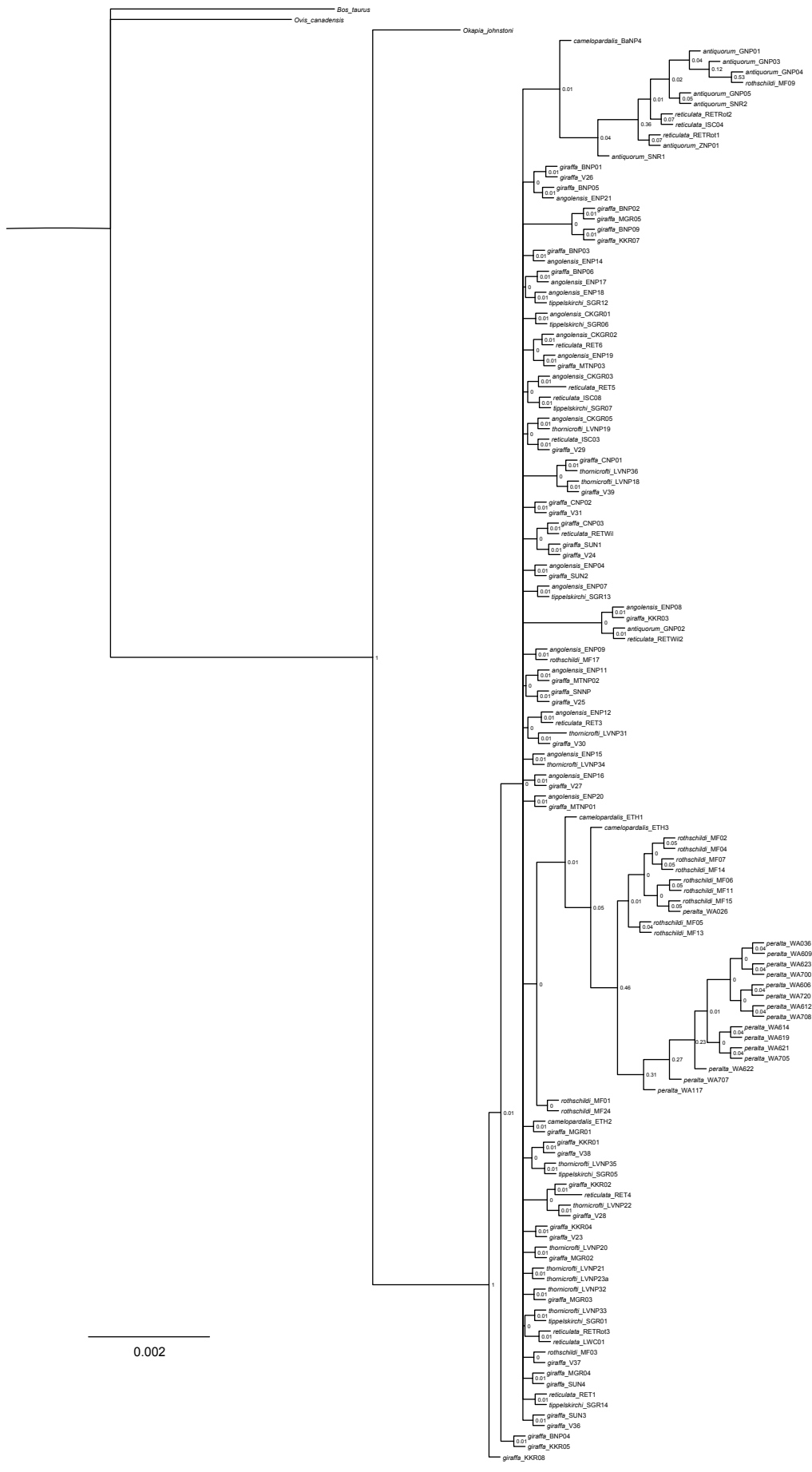


Fig O. Bayesian tree for the separate analysis of the 658 nucleotides (nt) long intron *NUP155* with the posterior probability values indicated for each node.

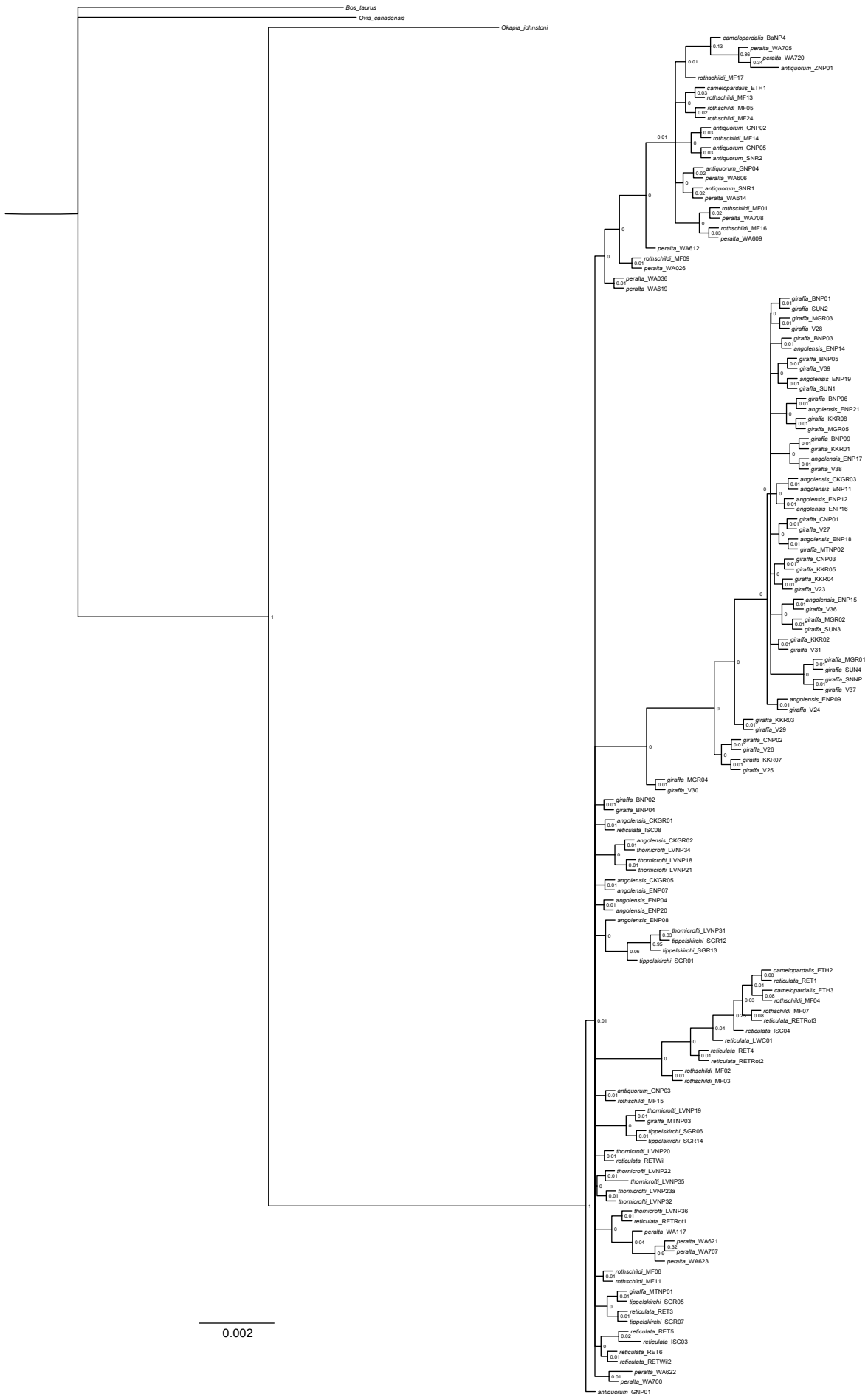


Fig P. Bayesian tree for the separate analysis of the 756 nucleotides (nt) long intron *OTOF* with the posterior probability values indicated for each node.

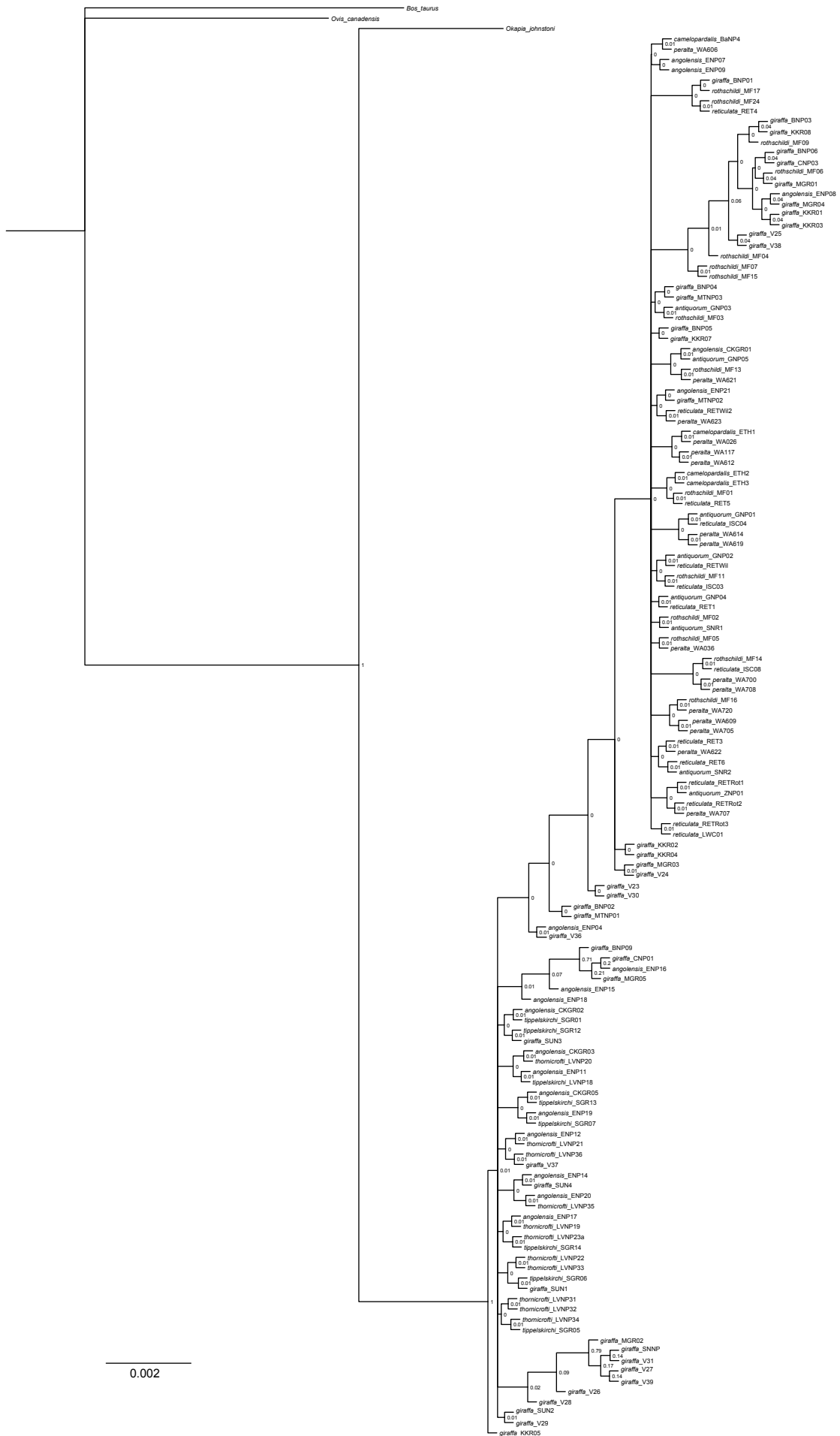


Fig Q. Bayesian tree for the separate analysis of the 897 nucleotides (nt) long intron *PLCE1* with the posterior probability values indicated for each node.

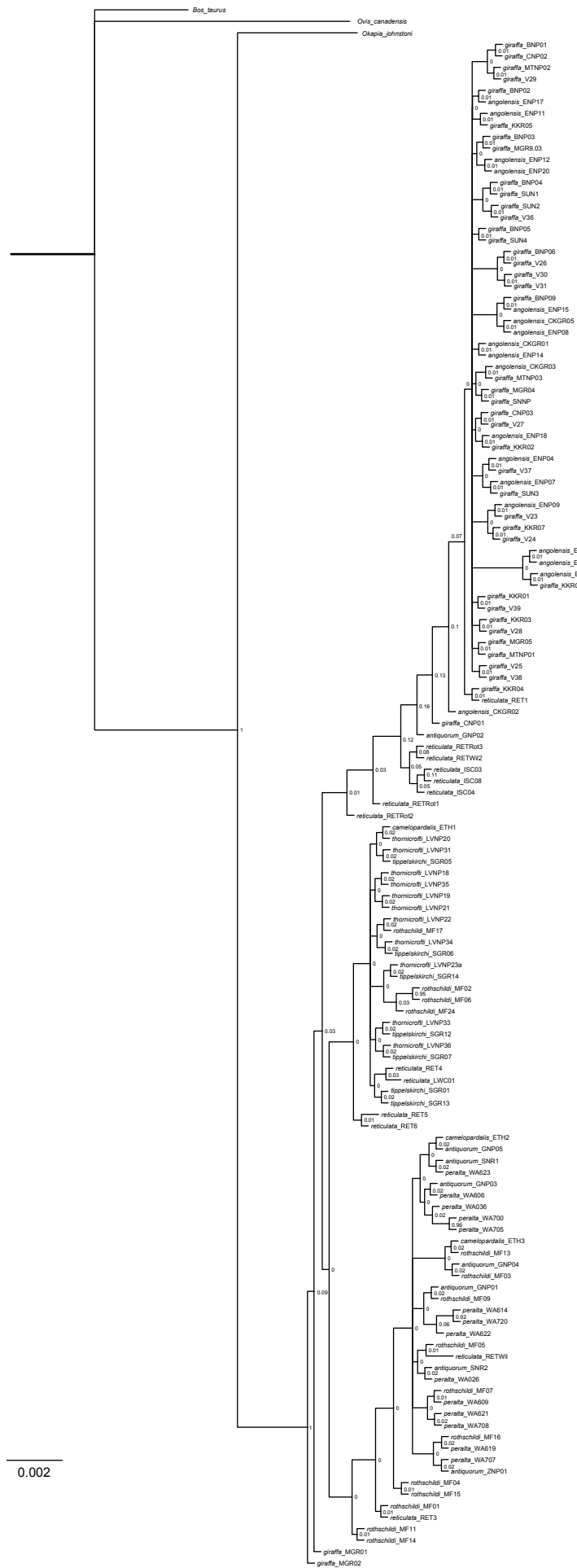


Fig R. Bayesian tree for the separate analysis of the 648 nucleotides (nt) long intron *RASSF4* with the posterior probability values indicated for each node.



Fig S. Bayesian tree for the separate analysis of the 828 nucleotides (nt) long intron *RFC5* with the posterior probability values indicated for each node.

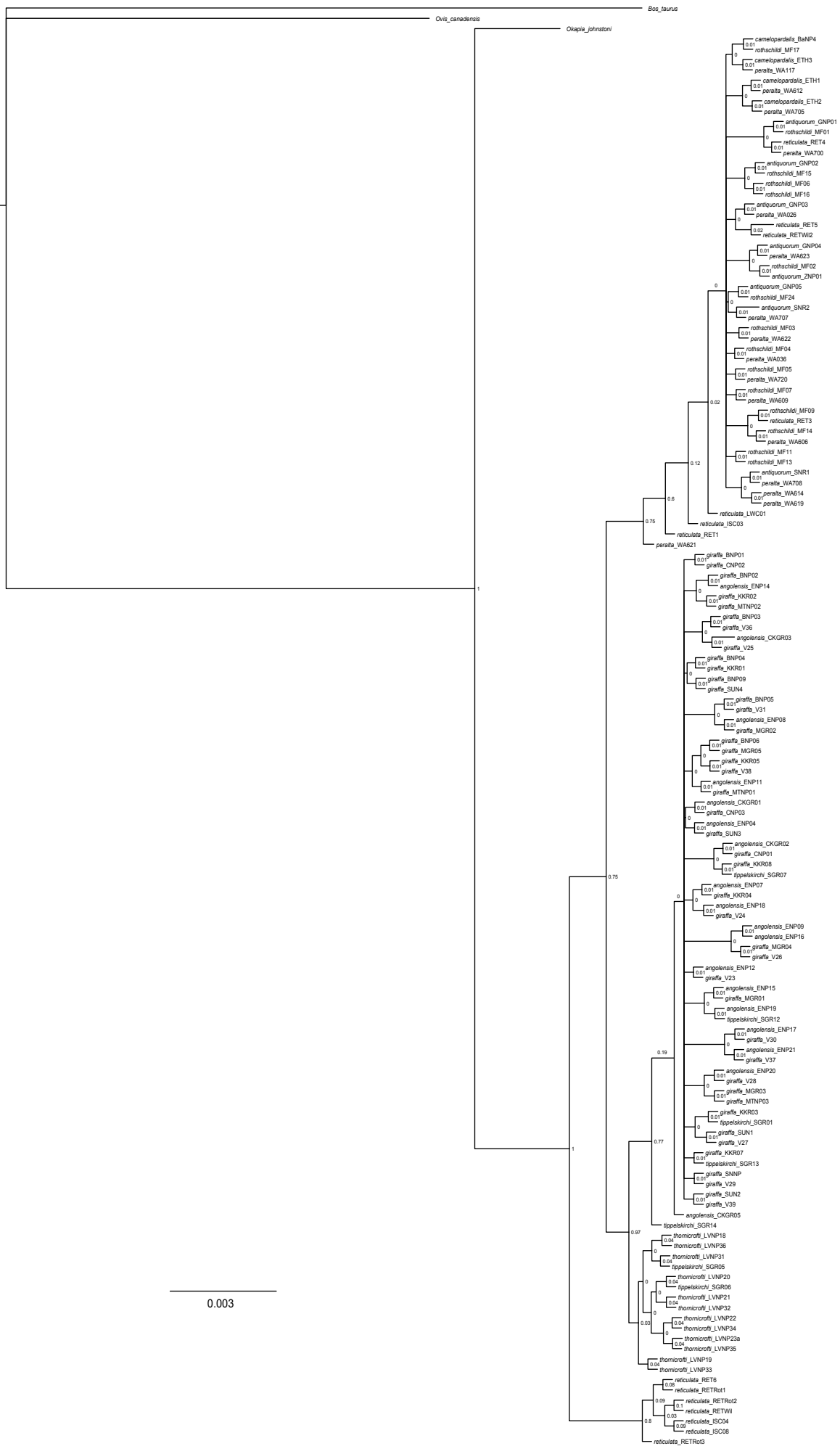


Fig T. Bayesian tree for the separate analysis of the 933 nucleotides (nt) long intron *SAP130* with the posterior probability values indicated for each node.

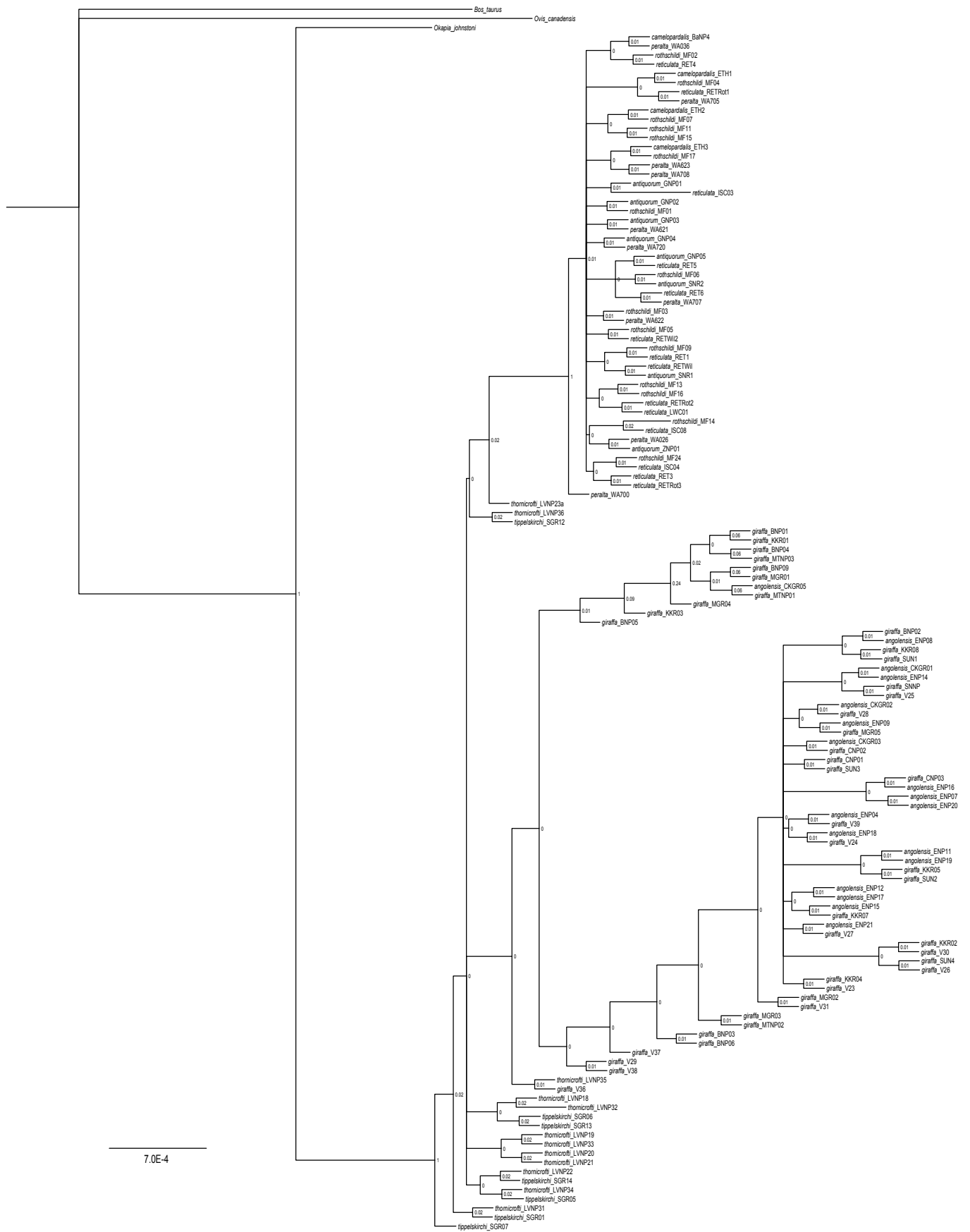


Fig U. Bayesian tree for the separate analysis of the 765 nucleotides (nt) long intron SOS1 with the posterior probability values indicated for each node.

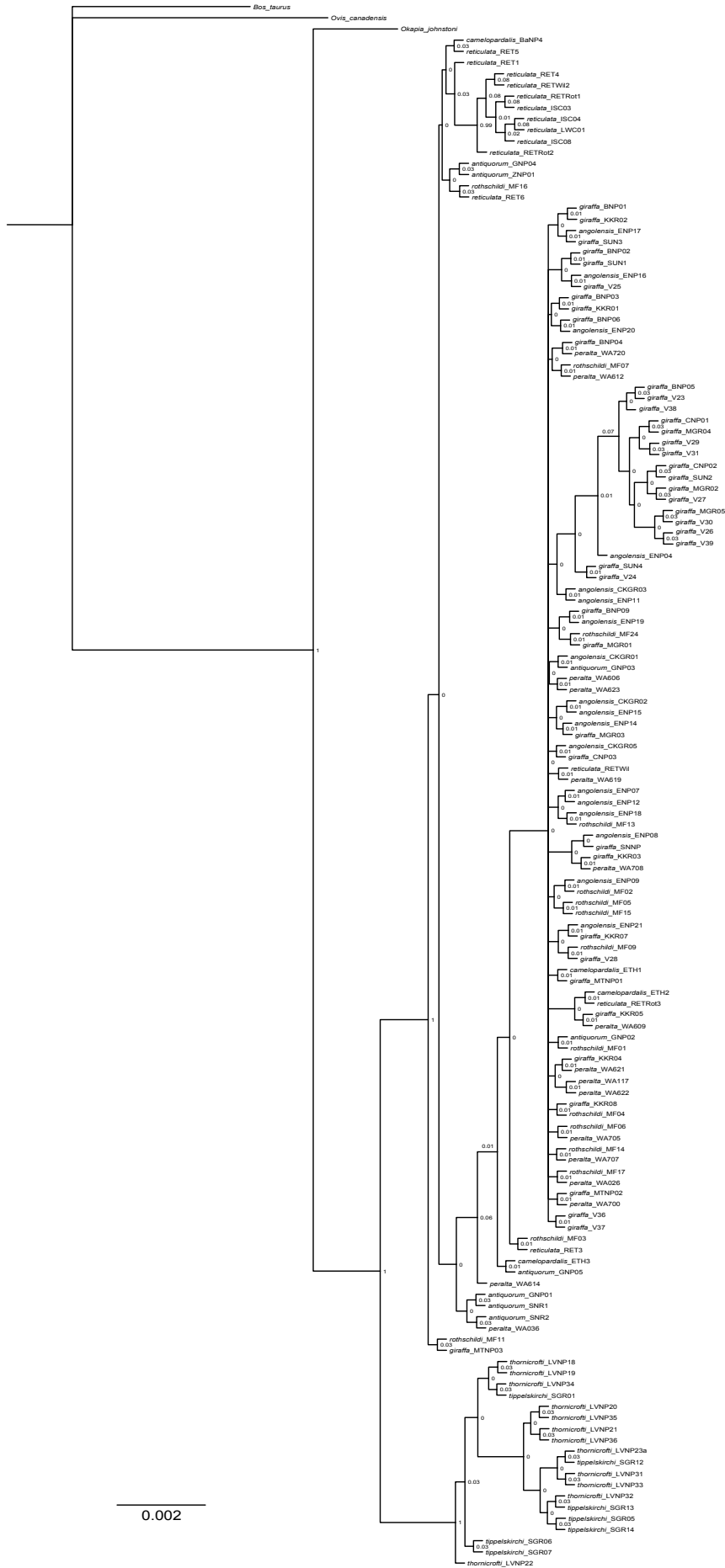


Fig V. Bayesian tree for the separate analysis of the 724 nucleotides (nt) long intron *UBN2* with the posterior probability values indicated for each node.

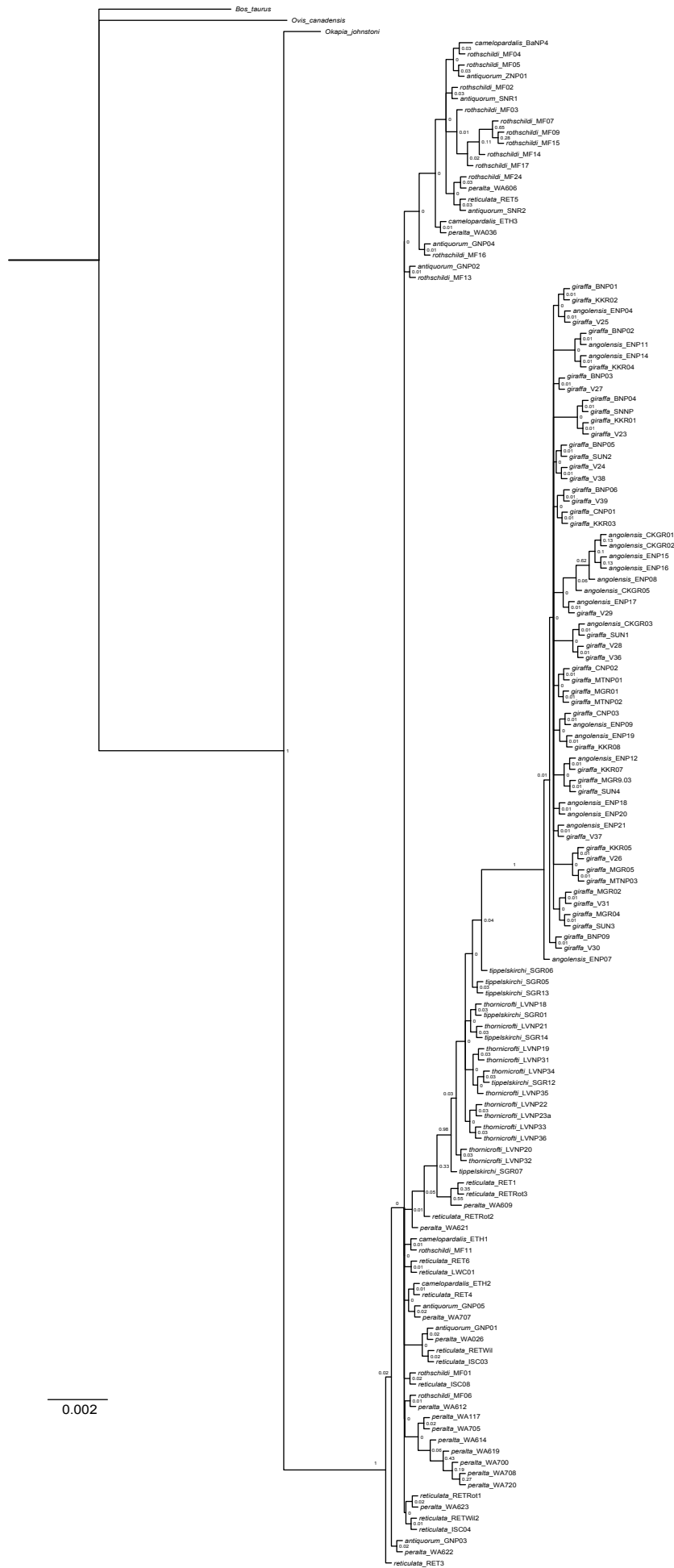


Fig W. Bayesian tree for the separate analysis of the 940 nucleotides (nt) long intron *USP33* with the posterior probability values indicated for each node.

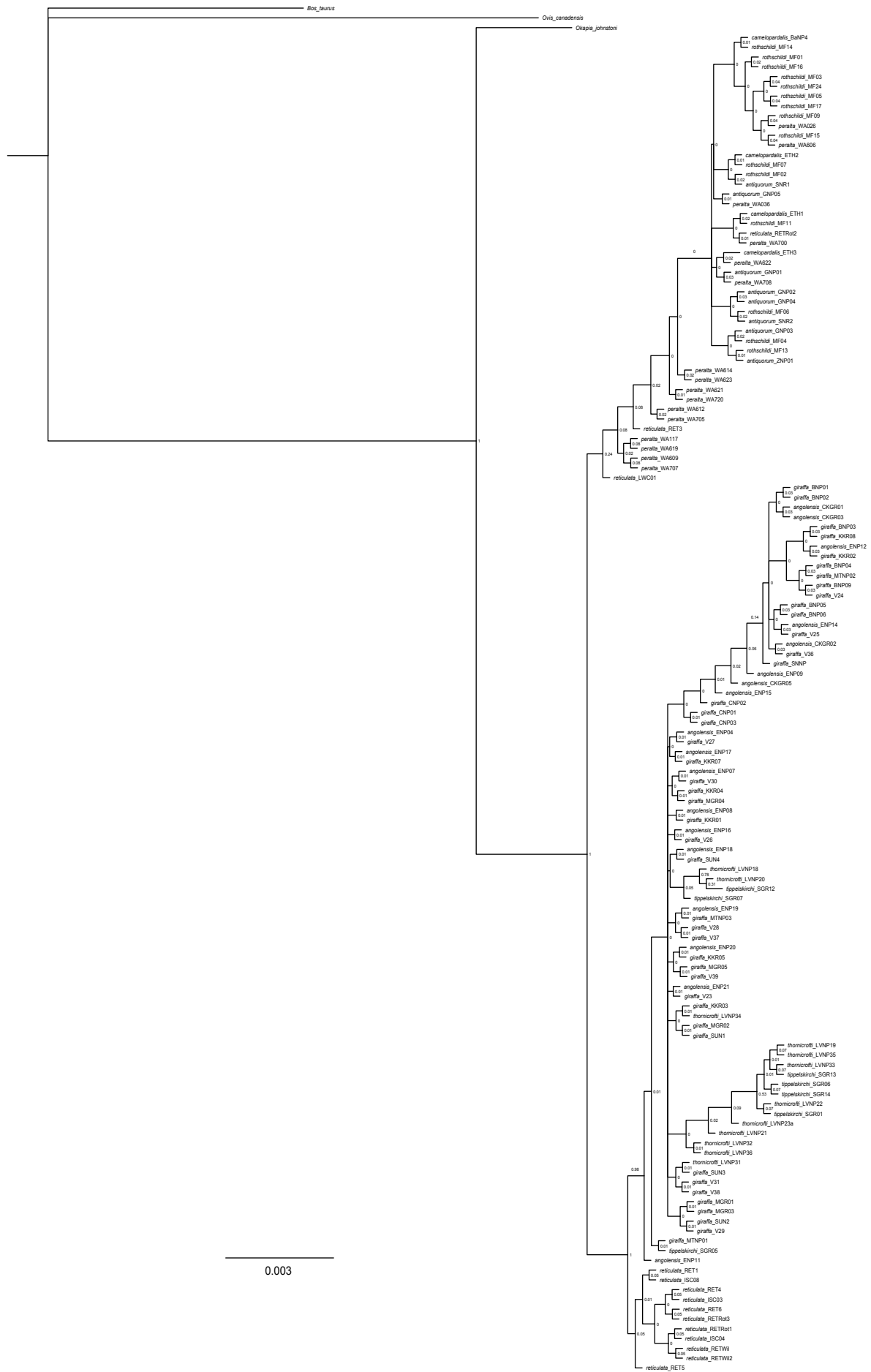


Fig X. Bayesian tree for the separate analysis of the 1332 nucleotides (nt) long intron *USP54* with the posterior probability values indicated for each node.

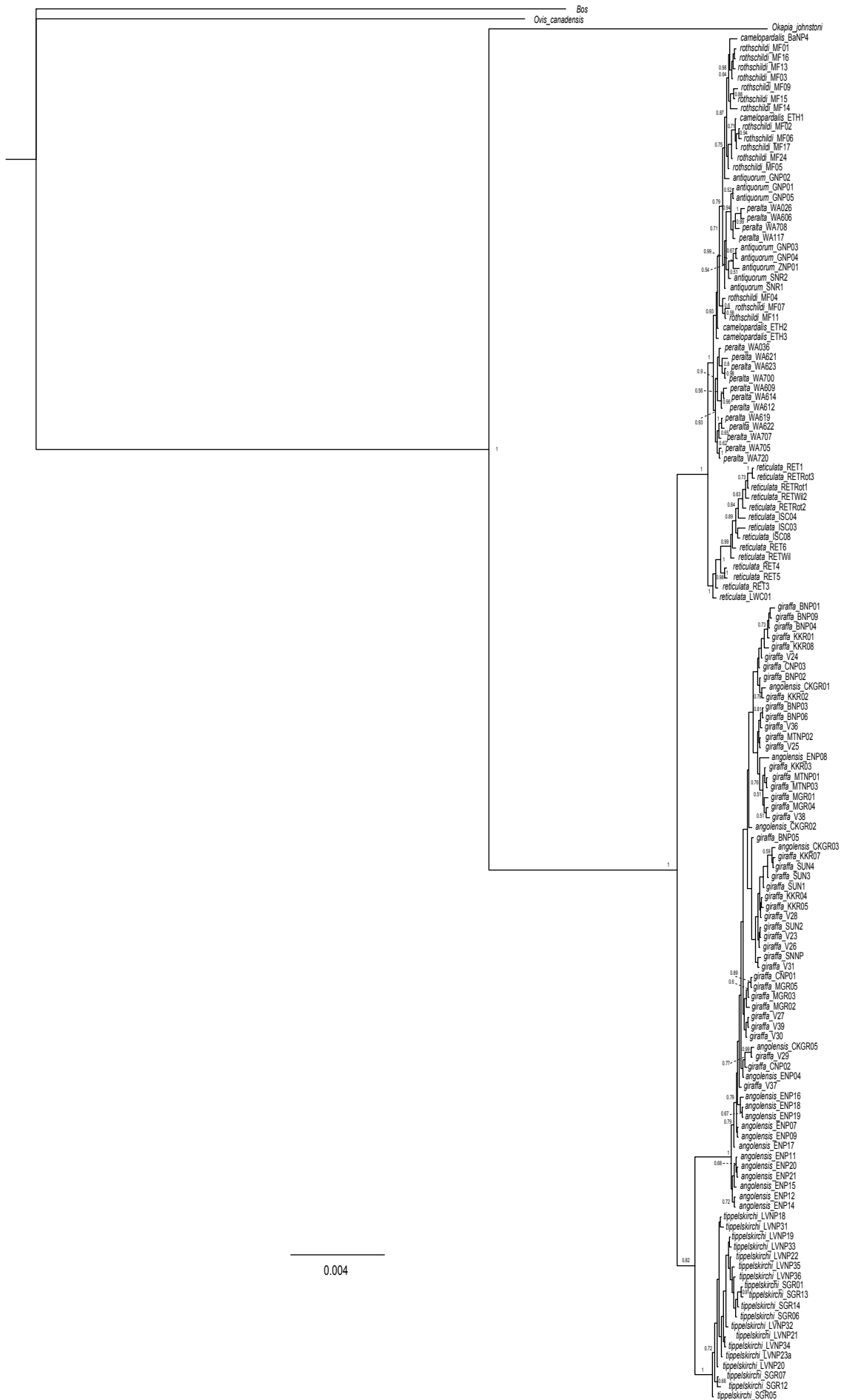


Fig Y. Bayesian tree (PP > 0.5) obtained from the analyses of nuDNA-137O3 dataset.



Fig Z. PhyML tree from the Maximum Likelihood analyses of the nuDNA-13703 dataset.

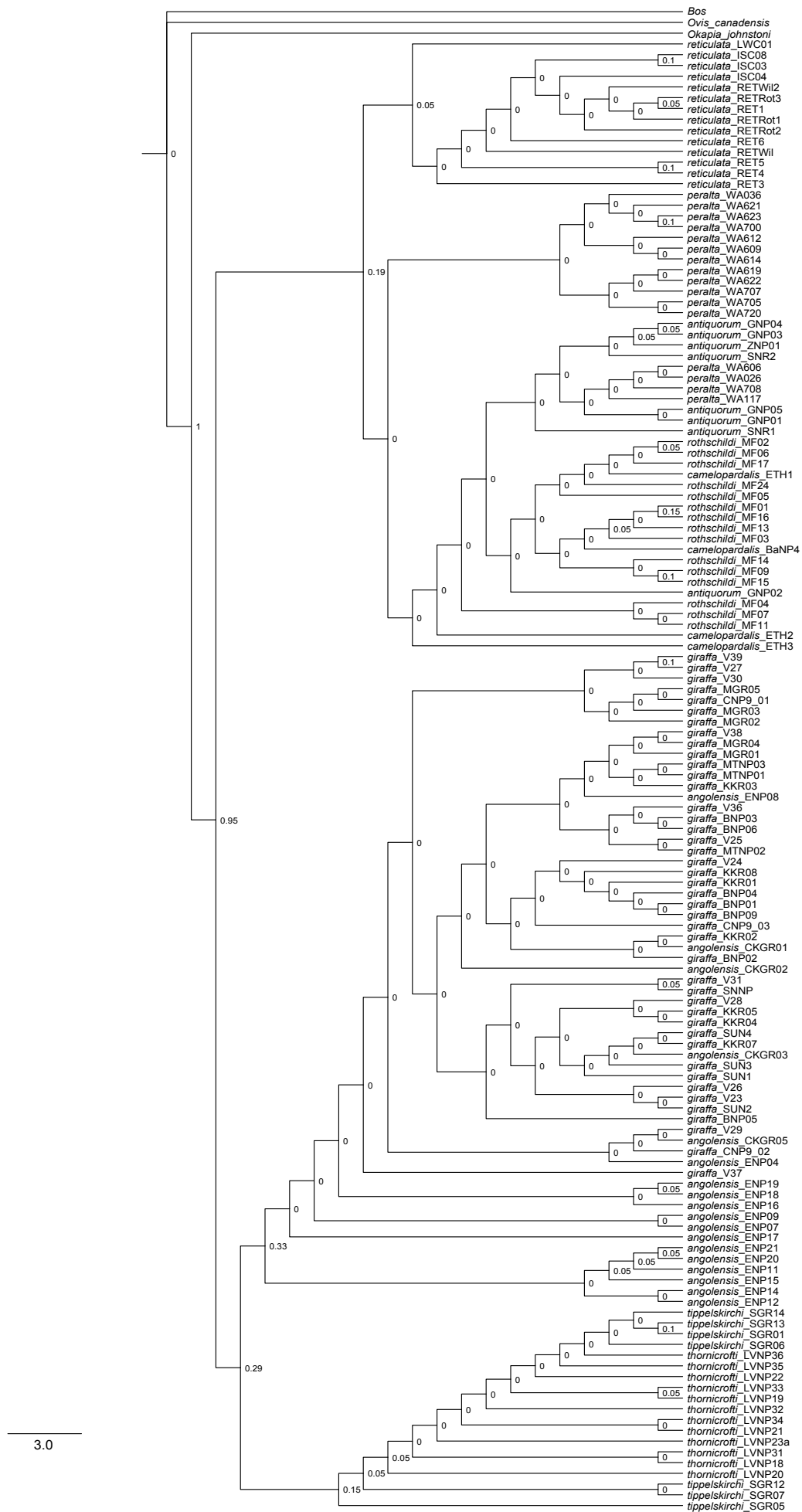


Fig Aa. Supertree showing the reproducibility indices (Rep) for the given topology, obtained from the analyses of the MRP matrix including 21 nuclear markers.

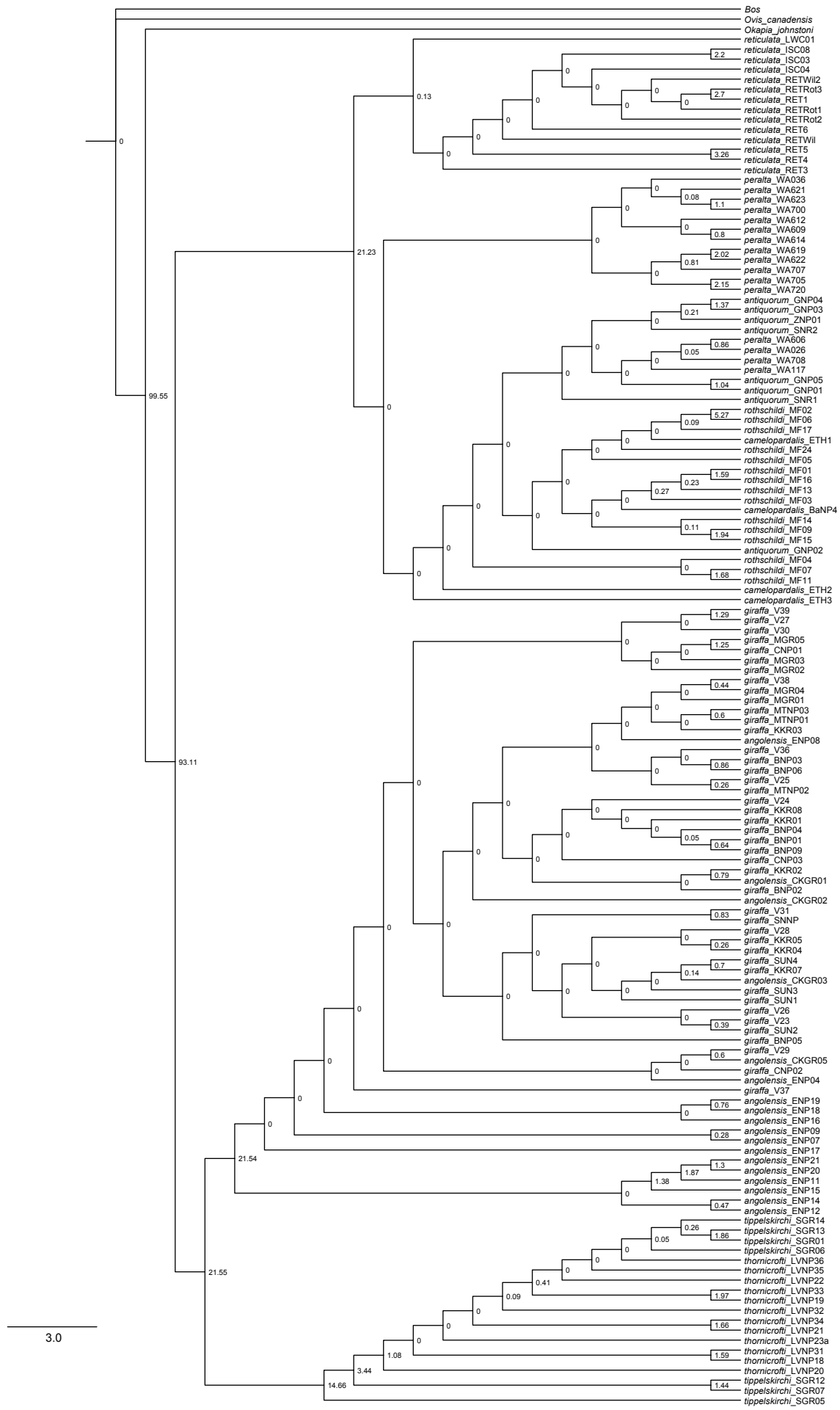


Fig Ab. Supertree showing the mean posterior probability values (MPP) for the given topology, obtained from the analyses of the MRP matrix including 21 nuclear markers.