

**Table 1. Details on the samples used**

Species	Code	Geographical origin	Termite COI GenBank acc. no.	Origin fungal sequences (C=comb, G=gut, B=basidio-carp	Fungus nuc-lsu GenBank acc. no.	Fungus mt- ssu GenBank acc. no.
<b>Fungus-growing Macrotermitinae</b>						
<i>Ancistrotermes cavithorax</i> (Sjöstedt)	dka46	Kolda, 2, Senegal	AY127715	G	AY127775	AY127826
	dka34	Kolda, 1, Senegal	AY127712	G	AY127774	AY127825
<i>Ancistrotermes crucifer</i> (Sjöstedt)	dka138	Nkolfoulo II, Cameroon		B, G	AY127777	AY127828
	dka140	Nkolfoulo II, Cameroon	AY127733	G	AY127778	AY127829
	dka69	Kolda, 2, Senegal		G	AY127776	AY127827
<i>Acanthotermes acanthothorax</i> (Sjöstedt)	dka120	Mbalmayo, Cameroon	AY127704	C	AY127782	AY127833
	dka136	Nkolfoulo II, Cameroon	AY127732	G	AY127781	AY127832
<i>Macrotermes subhyalinus</i> (Rambur)	dka5	Thiès, Senegal	AY127708	C, G	AY127760	AY127753
	dka64	Kolda, 3, Senegal	AY127709	C	AY127749	AY127811
<i>Macrotermes bellicosus</i> (Smeathman)	dka19	Kolda, 1, Senegal	AY127702	C, G	AY127759	AY127810
	dka8	Kolda, 1, Senegal	AY127711	C, G	AY127762	AY127813
	dka50	Kolda, 3, Senegal		C	AY127754	AY127806
	dka52	Kolda, 3, Senegal		C	AY127758	AY127809
	dka60	Kolda, 3, Senegal		C	AY127755	AY127805
	dka14	Kolda, 1, Senegal		C	AY127763	AY127814
<i>Macrotermes nobilis</i> (Sjöstedt)	367569	Franceville, Gabon	AY127705	G	AY127757	AY127808
<i>Macrotermes muelleri</i> (Sjöstedt)	367551	Franceville, Gabon	AY127703	G	AY127756	AY127807
<i>Macrotermes lilljeborgi</i> (Sjöstedt)	dka143		AY127734	–	–	–
<i>Odontotermes latericius</i> ssp1 (Haviland)	dka39	Kolda, 1, Senegal	AY127714	C, G	AY127794	AY127752
	dka42	Kolda, 1, Senegal		C	AY127795	AY127752
	dka43	Kolda, 1, Senegal		C	AY127785	AY127836
<i>Odontotermes latericius</i> ssp2 (Haviland)	dka81	Tambacounda, Senegal	AY127716	G	AY127768	AY127819
<i>Odontotermes nilensis</i> (Emerson)	dka93	Tambacounda, Senegal	AY127717	G	AY127767	AY127851
<i>Odonotermes silvicolus</i> (Roy-Noel)	dka6	Thiès, Senegal	AY127710	C, G	AY127786	AY127751
<i>Odontotermes</i> sp.1	dka114	Mbalmayo, Cameroon	AY127730	C	AY127788	AY127838
<i>Odontotermes</i> sp.3	dka126	Mbalmayo, Cameroon	AY127728	–	–	–
<i>Odontotermes</i> sp.4	dka132	Mbalmayo, Cameroon	AY127724	G	AY127783	AY127834
<i>Odontotermes</i> sp.2	dka303	Cameroon	AY127746	–	–	–
<i>Protermes minutus</i> (Grassé)	367567	Franceville, Gabon	AY127706	G	AY127766	AY127817
<i>Protermes prorepens</i> (Sjöstedt)	dka129	Mbalmayo, Cameroon	AY127729	G	AY127765	AY127816
<i>Microtermes</i> sp. 1	dka3	Thiès, Senegal	AY127707	C, G	AY127769	AY127820
<i>Microtermes</i> sp. 2	dka38	Kolda, 1, Senegal	AY127713	G	AY127770	AY127821
<i>Microtermes</i> sp. 3	dka103	Mbalmayo, Cameroon	AY127701	G	AY127772	AY127823
	dka107	Mbalmayo, Cameroon	AY127736	G	AY127789	AY127839
	dka142	Nkolfoulo II, Cameroon		G	AY127771	AY127822
	dka145	Mbalmayo, Cameroon		G	AY127773	AY127824
	dka146	Mbalmayo, Cameroon	AY127735	G	AY127775	AY127835
<i>Synacanthotermes heterodon</i> (Sjöstedt)	dka118	Mbalmayo, Cameroon	AY127726	G	AY127779	AY127830
	dka119	Mbalmayo, Cameroon		G	AY127780	AY127831
<i>Pseudacanthotermes militaris</i> (Hagen)	dka134	Yaounde, Cameroon	AY127731	G	AY127764	AY127815
Asiatic material						
<i>Macrotermes ahmadi</i> (Tho)	pe5	Sumatra, Indonesia	AY127747	–	–	–
<i>Macrotermes malacensis</i> (Haviland)	dka160	Kalimantan, Indonesia	AY127748	G	AY127761	AY127812
<i>Odonotermes minutus</i> (Amir)	dka161	Kalimantan, Indonesia	AY127738	G	AY127791	AY127841

<i>Odonototermes oblongatus</i>	dka162	Kalimantan, Indonesia	AY127739	G	–	–
<i>Odontotermes</i> sp. 5	dka164	Sri Lanka	AY127740	G	–	–
<i>Odontotermes javanicus</i> (Holmgren)	dka165	Kalimantan, Indonesia	AY127741	G	AY127787	AY127837
<i>Hypotermes xenotermitis</i> (Wasmann)	dka166	Kalimantan, Indonesia	AY127742	G	AY127790	AY127840
<i>Odontotermes sarawakensis</i> (Holmgren)	dka167	Kalimantan, Indonesia	AY127743	G	AY127793	AY127843
<i>Odontotermes billitoni</i> (Holmgren)	dka168	Kalimantan, Indonesia	AY127744	G	AY127792	AY127842

**Non-fungus-growing  
Macrotermitinae**

*Sphaerotermes sphaerotherax* (Sjöstedt) dka112 Mbalmayo, Cameroon AY127725

**Termite outgroups**

**Termitidae**

<i>Cubitermes</i> sp.	dka101	Mbalmayo, Cameroon	AY127719
<i>Microcerotermes parvus</i> (Haviland)	dka106	Mbalmayo, Cameroon	AY127721
<i>Nasutitermes latifrons</i> (Sjöstedt)	dka108	Mbalmayo, Cameroon	AY127722
<i>Amalotermes phaeocephalus</i> (Sands)	dka109	Mbalmayo, Cameroon	AY127723
<i>Astalotermes quietus</i> (Silvestri)	dka121	Mbalmayo, Cameroon	AY127727
<i>Amitermes evuncifer</i> (Silvestri)	dka97	Niokoulo Koba, Senegal	AY127718
<i>Foraminitermes valens</i> (Holmgren)	dka159	Southern Cameroon	AY127737
<i>Labritermes buttelreepeni</i> (Holmgren)	dka169	Kalimantan, Indonesia	AY127745

**Rhinotermitidae**

*Coptotermes sjostedti* (Holmgren) dka102 Mbalmayo, Cameroon AY127720

**Termitomyces herbarium-dried  
morphospecies**

<i>T. aurantiacus</i>	tgf82	Southern Region, Tanzania	AY127804	AY127852
<i>T. medius</i>	dka138	Nkolfoulo II, Cameroon	AY127796	AY127844
<i>T. robustus</i>	tgf95	Burundi	AY127797	AY127845
<i>T. microcarpus</i>	Tgf28	Korup, Cameroon	AY127799	AY127847
	Tgf12	Kepong, Malaysia	AY127798	AY127846
<i>T. letestui</i>	Tgf16	Eastern Province, Tanzania	AY127800	AY127848
<i>T. titanicus</i>	Tgf94	Bujumbura, Burundi	AY127801	AY127849
<i>T. clypeatus</i>	Tgf93	Burundi	AY127803	AY127851
	Tgf21	Kepong, Malaysia	AY127802	AY127850

**Fungal outgroups**

<i>Lyophyllum semitale</i>	AF223207	AF357125
<i>Lyophyllum atratum</i>	AF042582	AF357129
<i>Tephrocybe rancida</i>	AF223203	AF357094

COI, cytochrome oxidase subunit 1. Collectors: most samples were collected by the authors. The following fungal herbarium specimens were collected by other people: *T. aurantiacus* (tgf82, Tiina Saarimäki); *T. robustus* (Bart Buyck, BB 5197); *T. microcarpus* (tgf12, R. Watling, March 95 26543); *T. microcarpus* (tgf28, I. Alexander, Jan. 1988, no. 21); *T. letestui* (tgf16, Tiina Saarimäki, Dec. 1991, 1140); *T. titanicus* (Bart Buyck, Nov. 1992, BB4590); *T. clypeatus* (tgf 21, Watling and Turnbull, Watl.26222); *T. clypeatus* (Tgf93, Bart Buyck, BB 6170).