

**Supplementary Table 2.** Ophiostomatoid strains and GenBank accession numbers of ITS sequences used for the phylogenetic analysis (*Graphium* ITS data set)

Species	Isolate/Strain number	ITS	Substrate	Country of origin	References
<i>Graphium</i> sp.	SZWD16	MH185979	Sediments	China	Kun 2018 (unpublished)
<i>Graphium</i> sp.	PNB14_9B	MH267956	unknown	unknown	Skaltsas et al. 2018 (unpublished)
<i>Graphium</i> sp.	AHB20_2A	MH267955	unknown	unknown	Skaltsas et al. 2018 (unpublished)
<i>Graphium</i> sp.	1-3-1-8-1	KY069239	<i>Aquilaria crassna</i>	Laos	Sun et al. 2016 (unpublished)
<i>Graphium</i> sp.	AJ-65	KT264382	<i>Pinus edulis</i>	USA	Torres Cruz et al. 2015 (unpublished)
<i>Graphium</i> sp.	CCF 3566	AM267264	<i>Scolytodes unipunctatus</i>	Costa Rica	Hulcr et al. 2007
	CCF 3570	AM267265	<i>S. unipunctatus</i>	Costa Rica	
<i>Graphium</i> sp.	UCR2162	KJ131231	<i>Persea americana</i>	USA	Twizeyimana et al. 2014 (unpublished);
	UCR2163	KJ131232	<i>P. americana</i>	USA	Lynch et al. 2016
	UCR2289	KM592368	<i>Euwallacea</i> sp.	USA	
	UCR2291	KM592369	<i>Euwallacea</i> sp.	USA	
	UCR2137	KJ131236	<i>P. americana</i>	USA	
	UCR2140	KJ131237	<i>P. americana</i>	USA	
<i>Graphium</i> sp.	JCM 7440	AB038424	<i>Ulmus procera</i>	UK	Okada et al. 2000
	JCM 9299	AB038426	<i>Fagus sylvatica</i>	Germany	
<i>Graphium</i> sp.	3PG4ISW10	GQ266156	<i>Pinus contorta</i>	Korea	Kim et al. 2009 (unpublished);
	3PG8P.1-G2	DQ268588	<i>Ips pertubartus</i>	Canada	Massoumi Alamouti et al. 2007
	3PG8P.4-G2	DQ268589	<i>I. pertubartus</i>	Canada	
<i>Graphium</i> sp 2	32315aDRJ	MF782697	Unknown	Poland	Jankowiak et al. 2017 (unpublished)
	32315bDRJ	MF782698	Unknown	Poland	
	30415DRJ	MF782699	Unknown	Poland	
<i>Graphium</i> sp 3	KFL1715RJSM	MH283079	<i>Pteleobius vittatus</i>	Poland	Jankowiak et al. 2019
	KFL16615RJSM	MH283080	<i>P. vittatus</i>	Poland	
	KFL42216RJPV	MH283081	<i>P. vittatus</i>	Poland	
<i>G. adansoniae</i>	CMW30617	GQ200610	<i>Adansonia digitata</i>	South Africa	Cruywagen et al. 2010
	CMW30618	GQ200611	<i>A. digitata</i>	South Africa	
	CMW30619	GQ200612	<i>A. digitata</i>	South Africa	
	CMW30620	GQ200613	<i>A. digitata</i>	South Africa	
	CMW30621	GQ200614	<i>A. digitata</i>	South Africa	
	CMW30624	GQ200615	<i>A. digitata</i>	South Africa	
	CMW30622		<i>A. digitata</i>	South Africa	
<i>G. basitruncatum</i>	JCM 8083	AB038425	<i>Fagus sylvatica</i>	Germany	Okada et al. 2000;
	JCM 9300	AB038427	Forest soil	Solomon Islands	Kumar et al. 2007
	UAMH 10611	EF165016	Human	Canada	
<i>G. carbonarium</i>	CMW12420	FJ434979	<i>Salix babylonica</i> , <i>Pissodes</i> sp	China	Cruywagen et al. 2010; Paciura et al.
	CMW12418	FJ434980	<i>S. babylonica</i> , <i>Pissodes</i> sp	China	2010
<i>G. euwallaceae</i>	UCR2308	KM592371	<i>Acacia auriculiformis</i>	Vietnam	Lynch et al. 2016
	UCRFD97	KF540225	<i>Euwallacea</i> sp.	USA	
	UCRFD74	KF540224	<i>Euwallacea</i> sp.	USA	
	UCRCFU57	KF540223	<i>Euwallacea</i> sp.	USA	
	UCRCFU49	KF540222	<i>Euwallacea</i> sp.	USA	

<i>G. fabiforme</i>	CMW30626	GQ200616	<i>Adansonia rubrostipa</i>	Madagascar	Cruywagen et al. 2010
	CMW30627	GQ200617	<i>A. rubrostipa</i>	Madagascar	
<i>G. fimbriisporum</i>	CMW5610	AY148176	<i>Picea abies</i>	Austria	Jacobs et al. 2003; Cruywagen et al. 2010
	CMW5605	AY148177	<i>P. abies</i>	France	
	CMW3352	AY148178	<i>P. abies</i>	Austria	
	CMW3353	AY148179	<i>P. abies</i>	Austria	
	CMW5606	AY148180	<i>P. abies</i>	Austria	
	CMW43241	MH144138	<i>Picea koraiensis</i>	China	Chang et al. 2019
	CMW43242	MH144139	<i>P. koraiensis</i>	China	
	CMW43243	MH144140	<i>P. koraiensis</i>	China	
	CMW44504	MH144141	<i>P. koraiensis</i>	China	
<i>G. jumulu</i>	Ct-LP107	MK619307	Unknown	China	Chen 2019 (unpublished)
	Unknown	NR137980	<i>Adansonia gregorii</i>	Australia	Crous et al. 2015
<i>G. kuroshium</i>	UCR4618	KX262284	<i>Euwallacea</i> sp	USA	Na et al. 2018
	UCR4622	KX262285	<i>Euwallacea</i> sp	USA	
	UCR4606	KX262278	<i>Platanus americana</i>	USA	
	UCR4593	KX262276	<i>P. americana</i>	USA	
<i>G. lanceolatum</i>	3YT3P.1-G1	DQ268586	<i>Ips pertubartus</i>	Canada	Massoumi Alamouti et al. 2007; Kim et al. 2009 (unpublished)
	3YT3P.2-G1	DQ268587	<i>I. pertubartus</i>	Canada	
	3YT5P1-G1	GQ266161	<i>Pinus contorta</i>	Korea	
	3YT5P2-G1	GQ266162	<i>P. contorta</i>	Korea	
<i>G. laricis</i>	CMW5598	AY148181	<i>Larix decidua</i>	Scotland	Jacobs et al. 2003; Cruywagen et al. 2010
	CMW5603	AY148182	<i>L. decidua</i>	Austria	
	CMW5601	AY148183	<i>L. decidua</i>	Austria	
	CMW5602	AY148184	<i>L. decidua</i>	Austria	
<i>G. madagascariense</i>	CMW30625	GQ200618	<i>Adansonia rubrostipa</i>	Madagascar	Cruywagen et al. 2010
	CMW30628	GQ200619	<i>A. rubrostipa</i>	Madagascar	
	CMW30629	GQ200620	<i>A. rubrostipa</i>	Madagascar	
<i>G. penicillioides</i>	JCM 9301	AB038428	<i>Salix</i> sp.	Netherlands	Okada et al. 2000
	JCM 10496	AB038430	<i>Populus nigra</i> cv. <i>italica</i>	Czech Republic	
	JCM 10497	AB038431	<i>P. nigra</i> cv. <i>italica</i>	Czech Republic	
	JCM 10498	AB038432	<i>P. nigra</i> cv. <i>italica</i>	Czech Republic	
	JCM 10499	AB038433	<i>P. nigra</i> cv. <i>italica</i>	Czech Republic	
<i>G. pseudormiticum</i>	JCM 9331	AB038429	Unknown	South Africa	Jacobs et al. 2003; Cruywagen et al. 2010; Paciura et al. 2010
	CMW5611	AY148185	<i>Pinus sylvestris</i>	Austria	
	CMW503	AY148186	<i>Pinus</i> sp.	South Africa	
	CMW12285	FJ434981	<i>Tsuga dumosa</i>	China	
<i>Parascedosporium putredinis</i>	CBS 127.84T.	AM749440	<i>Tectona grandis</i>	Jamaica	Gilgado et al. 2007; Zhang and Pan 2009 (unpublished)
	CBS118694	AM749735	<i>Actinidia deliciosa</i>	New Zealand	
	HSAUP052348	FJ914685	Unknown	China	
<i>Scedosporium boydii</i>	EM 8107	DQ914435	Unknown	Greece	Velegraki et al. 2006 (unpublished)

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