

**Supplementary Table 2.** Isolates and sequence data of *Fusarium* spp. used in the phylogenetic analysis of this study

Isolate	Species	Host	Location	GenBank numbers <sup>a</sup>		
				ITS	<i>TEF1-<math>\alpha</math></i>	<i>RPB2</i> <sup>b</sup>
CMW 52862 <sup>c</sup>	<i>Fusarium rekanum</i> [AF-19]	<i>Euwallacea perbrevis</i> (TSHBa)	PKU, Indonesia	MN249094	MN249151	MN249137, MN249108
CMW 53691	<i>F. rekanum</i> [AF-19]	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN249097	MN249154	MN249140, MN249111
CMW 53690	<i>F. rekanum</i> [AF-19]	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN249098	MN249155	MN249141, MN249112
CMW 53688	<i>F. rekanum</i> [AF-19]	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN249100	MN249157	MN249143, MN249114
CMW 51764	<i>F. rekanum</i> [AF-19]	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN249104	MN249161	MN249147, MN249118
CMW 51765	<i>F. rekanum</i> [AF-19]	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN249105	MN249162	MN249148, MN249119
<b>CMW 54723<sup>d</sup></b>	<b><i>F. rekanum</i> [AF-19]</b>	<b><i>E. similis</i></b>	<b>PKU, Indonesia</b>	<b>MN954349</b>	<b>MT009963</b>	<b>MT009923, MT010003</b>
<b>CMW 54730<sup>d</sup></b>	<b><i>F. rekanum</i> [AF-19]</b>	<b><i>E. similis</i></b>	<b>PKU, Indonesia</b>	<b>MN954353</b>	<b>MT009967</b>	<b>MT009927, MT010007</b>
<b>CMW 54737<sup>d</sup></b>	<b><i>F. rekanum</i> [AF-19]</b>	<b><i>E. similis</i></b>	<b>PKU, Indonesia</b>	<b>MN954359</b>	<b>MT009973</b>	<b>MT009933, MT010013</b>
<b>CMW 51753<sup>d</sup></b>	<b><i>Fusarium</i> sp.</b>	<b><i>Acacia crassicarpa</i></b>	<b>PKU, Indonesia</b>	<b>MN954324</b>	<b>MT009938</b>	<b>MT009898, MT009978</b>
<b>CMW 51754<sup>d</sup></b>	<b><i>Fusarium</i> sp.</b>	<b><i>A. crassicarpa</i></b>	<b>PKU, Indonesia</b>	<b>MN954325</b>	<b>MT009939</b>	<b>MT009899, MT009979</b>
<b>CMW 51755<sup>d</sup></b>	<b><i>Fusarium</i> sp.</b>	<b><i>A. crassicarpa</i></b>	<b>PKU, Indonesia</b>	<b>MN954326</b>	<b>MT009940</b>	<b>MT009900, MT009980</b>

CMW 51758 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954327	MT009941	MT009901, MT009981
CMW 52864 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954329	MT009943	MT009903, MT009983
CMW 52865 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954330	MT009944	MT009904, MT009984
CMW 52866 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954331	MT009945	MT009905, MT009985
CMW 52867 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954332	MT009946	MT009906, MT009986
CMW 52868 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954333	MT009947	MT009907, MT009987
CMW 52869 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954334	MT009948	MT009908, MT009988
CMW 54732 <sup>d</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954354	MT009968	MT009928, MT010008
CMW 54733 <sup>d</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954355	MT009969	MT009929, MT010009
CMW 54734 <sup>d,c,e</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954356	MT009970	MT009930, MT010010
CMW 54735 <sup>d,c,e</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954357	MT009971	MT009931, MT010011
CMW 54741 <sup>d,e</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954360	MT009974	MT009934, MT010014

CMW 54751 <sup>d</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954362	MT009976	MT009936, MT010016
CMW 54752 <sup>d,e</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954363	MT009977	MT009937, MT010017
CMW 51766 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954328	MT009942	MT009902, MT009982
CMW 53705 <sup>d,e</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954337	MT009951	MT009911, MT009991
CMW 53731 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954338	MT009952	MT009912, MT009992
CMW 54719 <sup>d,c,e</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954345	MT009959	MT009919, MT009999
CMW 54722 <sup>d,e</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954348	MT009962	MT009922, MT010002
CMW 54728 <sup>d</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954352	MT009966	MT009926, MT010006
CMW 54736 <sup>d</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954358	MT009972	MT009932, MT010012
CMW 54748 <sup>d</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954361	MT009975	MT009935, MT010015
CMW 53696 <sup>d,e</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954335	MT009949	MT009909, MT009989
CMW 53699 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954336	MT009950	MT009910, MT009990

CMW 54714 <sup>d,c,e</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954342	MT009956	MT009916, MT009996
CMW 54717 <sup>d,e</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954343	MT009957	MT009917, MT009997
CMW 54718 <sup>d</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954344	MT009958	MT009918, MT009998
CMW 53734 <sup>d,c</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954356	MT009953	MT009913, MT009993
CMW 53735 <sup>d</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954357	MT009954	MT009914, MT009994
CMW 54696 <sup>d,e</sup>	<i>Fusarium</i> sp.	<i>A. crassicarpa</i>	PKU, Indonesia	MN954341	MT009955	MT009915, MT009995
CMW 54720 <sup>d,c,e</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954346	MT009960	MT009920, MT010000
CMW 54721 <sup>d</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954347	MT009961	MT009921, MT010001
CMW 54724 <sup>d,e</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954350	MT009964	MT009924, MT010004
CMW 54726 <sup>d,e</sup>	<i>Fusarium</i> sp.	<i>E. perbrevis</i> (TSHBa)	PKU, Indonesia	MN954351	MT009965	MT009925, MT010005
CMW 54748 <sup>d</sup>	<i>Fusarium</i> sp.	<i>E. similis</i>	PKU, Indonesia	MN954361	MT009975	MT009935, MT010015
UCR3641 <sup>c</sup>	<i>F. kuroshium</i> [AF-12]	<i>Platanus racemosa</i>	El Cajon, CA	KX262196	KX262216	KX262256
UCR3644	<i>F. kuroshium</i> [AF-12]	<i>P. racemosa</i>	El Cajon, CA	KX262197	KX262217	KX262257

UCR3651	<i>F. kuroshium</i> [AF-12]	<i>Euwallacea</i> sp.	Fallbrook, CA	KX262198	KX262218	KX262258
UCR3653	<i>F. kuroshium</i> [AF-12]	<i>Persea americana</i>	Bonsall, CA	KX262200	KX262220	KX262260
UCR3654	<i>F. kuroshium</i> [AF-12]	<i>P. americana</i>	Bonsall, CA	KX262201	KX262221	KX262261
UCR3652	<i>F. kuroshium</i> [AF-12]	Unknown	Unknown	KX262199	KX262219	KX262259
UCR4672	<i>Fusarium</i> sp. [AF-14]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262206	KX262226	KX262266
UCR4673	<i>Fusarium</i> sp. [AF-16]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262207	KX262227	KX262267
UCR4674	<i>Fusarium</i> sp. [AF-13]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262208	KX262228	KX262268
UCR4675	<i>Fusarium</i> sp. [AF-13]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262209	KX262229	KX262269
UCR4676	<i>Fusarium</i> sp. [AF-17]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262210	KX262230	KX262270
UCR4677	<i>Fusarium</i> sp. [AF-18]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262211	KX262231	KX262271
UCR4678	<i>Fusarium</i> sp. [AF-16]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262212	KX262232	KX262272
UCR4679	<i>Fusarium</i> sp. [AF-15]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262213	KX262233	KX262273
UCR4680	<i>Fusarium</i> sp. [AF-17]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262214	KX262234	KX262274
UCR4681	<i>Fusarium</i> sp. [AF-14]	<i>Euwallacea</i> sp.	Taichung, Taiwan	KX262215	KX262235	KX262275
NRRL20438	<i>F. ambrosium</i> [AF-1]	<i>E. perbrevis</i> (TSHBa)	India	AF178397	AF178332	JX171584
NRRL22231	<i>F. tuaranense</i> [AF-5]	<i>Hevea brasiliensis</i>	Malaysia	KC691570	KC691542	KC691631, KC691660

NRRL22346	<i>F. ambrosium</i> [AF-1]	<i>E. perbrevis</i> (TSHBa)	India	EU329669	FJ240350	EU329503
NRRL22468	<i>F. neocosmosporiellum</i>	<i>Arachis hypogaea</i>	Guinea	DQ094318	AF178349	EU329512
NRRL22643	<i>Fusarium</i> sp. [AF-9]	<i>Xyleborus ferrugineus</i>	Costa Rica	KC691583	DQ247628	KC691644, KC691673
NRRL32434	<i>F. lichenicola</i>	<i>Homo sapiens</i>	Germany	DQ094444	DQ246977	EF470161
CBS279.34 <sup>c</sup>	<i>F. lichenicola</i>	<i>Homo sapiens</i>	Somalia	LR583725	LR583615	LR583840
CBS279.59 <sup>c</sup>	<i>F. lichenicola</i>	Soil	Tahiti	LR583726	LR583616	LR583841
CBS483.96	<i>F. lichenicola</i>	<i>Homo sapiens</i>	Japan	LR583727	LR583617	LR583842
CBS509.63 <sup>c</sup>	<i>F. lichenicola</i>	Air	Brazil	LR583728	LR583618	LR583843
CBS522.63 <sup>c</sup>	<i>F. lichenicola</i>	Air	Brazil	LR583729	LR583619	LR583844
CBS623.92	<i>F. lichenicola</i>	<i>Homo sapiens</i>	Germany	LR583730	LR583620	LR583845
NRRL34123	<i>F. lichenicola</i>	<i>Homo sapiens</i>	India	DQ094645	DQ247192	EU329635
NRRL46518	<i>F. tuaranense</i> [AF-5]	<i>H. brasiliensis</i>	Malaysia	KC691571	KC691543	KC691632, KC691661
NRRL54722	<i>F. euwallaceae</i> [AF-2]	<i>Euwallacea</i> sp.	Israel	JQ038014	JQ038007	JQ038028
NRRL54723	<i>F. euwallaceae</i> [AF-2]	<i>Euwallacea</i> sp.	Israel	JQ038015	JQ038008	JQ038029

NRRL54724	<i>F. euwallaceae</i> [AF-2]	<i>Euwallacea</i> sp.	Israel	JQ038016	JQ038009	JQ038030
NRRL54725	<i>F. euwallaceae</i> [AF-2]	<i>Euwallacea</i> sp.	Israel	JQ038017	JQ038010	JQ038031
NRRL54726	<i>F. euwallaceae</i> [AF-2]	<i>Euwallacea</i> sp.	Israel	JQ038018	JQ038011	JQ038032
NRRL54727	<i>F. euwallaceae</i> [AF-2]	<i>Euwallacea</i> sp.	Israel	JQ038019	JQ038012	JQ038033
NRRL62578	<i>F. oligoseptatum</i> [AF-4]	<i>E. validus</i>	PA (U.S.A.)	KC691565	KC691537	KC691626, KC691655
NRRL62579 <sup>c</sup>	<i>F. oligoseptatum</i> [AF-4]	<i>E. validus</i>	PA (U.S.A.)	KC691566	KC691538	KC691627, KC691656
NRRL62584	<i>Fusarium</i> sp. [AF-8]	<i>Euwallacea</i> sp.	FL (U.S.A.)	KC691582	KC691554	KC691643, KC691672
NRRL62585	<i>Fusarium</i> sp. [AF-8]	<i>Euwallacea</i> sp.	FL (U.S.A.)	KC691577	KC691554	KC691638, KC691667
NRRL62590	<i>Fusarium</i> sp. [AF-6]	<i>Euwallacea</i> sp.	FL (U.S.A.)	KC691574	KC691546	KC691635, KC691664
NRRL62591	<i>Fusarium</i> sp. [AF-6]	<i>Euwallacea</i> sp.	FL (U.S.A.)	KC691573	KC691545	KC691634, KC691663
NRRL62606	<i>F. floridanum</i> [AF-3]	<i>Euwallacea</i> sp.	FL (U.S.A.)	KC691561	KC691533	KC691622, KC691651
NRRL62610	<i>F. obliquiseptatum</i> [AF-7]	<i>Euwallacea</i> sp.	Australia	KC691575	KC691547	KC691636, KC691665
NRRL62611	<i>F. obliquiseptatum</i> [AF-7]	<i>Euwallacea</i> sp.	Australia	KC691576	KC691548	KC691637, KC691666
NRRL62629	<i>F. floridanum</i> [AF-3]	<i>E. interjectus</i>	FL (U.S.A.)	KC691564	KC691536	KC691625, KC691654
NRRL62941	<i>Fusarium</i> sp. [AF-10]	Unknown	Singapore	KM406633	KM406626	KM406647
NRRL62942	<i>F. ambrosium</i> [AF-1]	<i>Camellia sinensis</i>	Sri Lanka	KM406631	KM406624	KM406645

NRRL62944	<i>Fusarium</i> sp. [AF-11]	<i>C. sinensis</i>	Sri Lanka	KM406634	KM406627	KM406648
NRRL66088	<i>Fusarium</i> sp. [AF-9]	<i>Delonix regia</i>	FL (U.S.A.)	KM406632	KM406632	KM406646
TW1	<i>Fusarium</i> sp. [AF-18]	<i>P. americana</i>	Taiwan	MK432860	MK435437	MK435521
TW2	<i>Fusarium</i> sp. [AF-14]	<i>P. americana</i>	Taiwan	MK432862	MK435439	MK435523
TW4	<i>Fusarium</i> sp. [AF-16]	<i>P. americana</i>	Taiwan	MK432866	MK435443	MK435527
TW15	<i>Fusarium</i> sp. [AF-15]	<i>P. americana</i>	Taiwan	MK432861	MK435438	MK435522
TW25	<i>Fusarium</i> sp. [AF-16]	<i>P. americana</i>	Taiwan	MK432863	MK435440	MK435524
TW34	<i>Fusarium</i> sp. [AF-16]	<i>P. americana</i>	Taiwan	MK432864	MK435441	MK435525
TW37	<i>Fusarium</i> sp. [AF-16]	<i>P. americana</i>	Taiwan	MK432865	MK435442	MK435526
TW40	<i>Fusarium</i> sp. [AF-17]	<i>P. americana</i>	Taiwan	MK432867	MK435444	MK435528
TW43	<i>F. kuroshium</i> [AF-12]	<i>P. americana</i>	Taiwan	MK432868	MK435445	MK435529
TW44	<i>Fusarium</i> sp. [AF-18]	<i>P. americana</i>	Taiwan	MK432869	MK435446	MK435530
TW45	<i>Fusarium</i> sp. [AF-15]	<i>P. americana</i>	Taiwan	MK432870	MK435447	MK435531
TW55	<i>Fusarium</i> sp. [AF-18]	<i>P. americana</i>	Taiwan	MK432871	MK435448	MK435532
TW56	<i>Fusarium</i> sp. [AF-14]	<i>P. americana</i>	Taiwan	MK432872	MK435449	MK435533
UCR5499	<i>Fusarium</i> sp. [AF-14]	<i>Euwallacea</i> sp.	Taiwan	MK432873	MK435450	MK435534



UCR5508	<i>Fusarium</i> sp. [AF-16]	<i>Euwallacea</i> sp.	Taiwan	MK432874	MK435451	MK435535
UCR5509	<i>Fusarium</i> sp. [AF-14]	<i>Euwallacea</i> sp.	Taiwan	MK432875	MK435452	MK435536
UCR5513	<i>Fusarium</i> sp. [AF-16]	<i>Euwallacea</i> sp.	Taiwan	MK432876	MK435453	MK435537
UCR5545	<i>Fusarium</i> sp. [AF-17]	<i>Euwallacea</i> sp.	Taiwan	MK432877	MK435454	MK435538
UCR5546	<i>Fusarium</i> sp. [AF-14]	<i>Euwallacea</i> sp.	Taiwan	MK432878	MK435455	MK435539
UCR5557	<i>Fusarium</i> sp. [AF-18]	<i>Euwallacea</i> sp.	Taiwan	MK432879	MK435456	MK435540
UCR5584	<i>Fusarium</i> sp. [AF-13]	<i>Euwallacea</i> sp.	Taiwan	MK432880	MK435457	MK435541
UCR6394	<i>Fusarium</i> sp. [AF-15]	<i>Euwallacea</i> sp.	Taiwan	MK432881	MK435458	MK435542
UCR6395	<i>Fusarium</i> sp. [AF-15]	<i>Euwallacea</i> sp.	Taiwan	MK432882	MK435459	MK435543
UCR6403	<i>Fusarium</i> sp. [AF-13]	<i>Euwallacea</i> sp.	Taiwan	MK432883	MK435460	MK435544
UCR6405	<i>Fusarium</i> sp. [AF-16]	<i>Euwallacea</i> sp.	Taiwan	MK432884	MK435461	MK435545
UCR6408	<i>F. kuroshium</i> [AF-12]	<i>Euwallacea</i> sp.	Taiwan	MK432885	MK435462	MK435546
UCR6409	<i>Fusarium</i> sp. [AF-13]	<i>Euwallacea</i> sp.	Taiwan	MK432886	MK435463	MK435547
UCR6411	<i>Fusarium</i> sp. [AF-18]	<i>Euwallacea</i> sp.	Taiwan	MK432887	MK435464	MK435548
UCR6414	<i>Fusarium</i> sp. [AF-18]	<i>Euwallacea</i> sp.	Taiwan	MK432888	MK435465	MK435549
UCR6417	<i>Fusarium</i> sp. [AF-18]	<i>Euwallacea</i> sp.	Taiwan	MK432889	MK435466	MK435550

UCR6432	<i>Fusarium</i> sp. [AF-13]	<i>Euwallacea</i> sp.	Taiwan	MK432890	MK435467	MK435551
UCR6436	<i>Fusarium</i> sp. [AF-14]	<i>Euwallacea</i> sp.	Taiwan	MK432891	MK435468	MK435552

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<sup>a</sup> ITS = internal transcribed spacer region; *TEF1- $\alpha$*  = translation elongation factor 1- $\alpha$ ; *RPB2* = DNA-directed RNA polymerase II subunit.

<sup>b</sup> Two accession numbers correspond to unjoined RPB2-1 and RPB2-2 sequences.

<sup>c</sup> Type-species

<sup>d</sup> Isolates collected in Indonesia and sequenced in this study

<sup>e</sup> Isolates used in morphological descriptions and growth studies

[AF-] indicates the Ambrosia fusaria species within the AFC

PKU = Pekanbaru; CA = California; PA = Pennsylvania; FL = Florida