

**Table S1.** Reference sequences, species, sources, and GenBank accession numbers used for phylogenetic analysis in the study.

Species	Strain	Locality, host/substrate	GenBank accession		
			<i>Alt a-1</i>	<i>endoPG</i>	OPA10-2
<i>Alternaria alternata</i>	19-51-31	Italy, <i>Clematis japonica</i>	MT043357	MT185590	MT043355
<i>Alternaria alternata</i>	CBS 686.68	Sahara, desert sand	KP123859	KP124006	KP124614
<i>Alternaria alternata</i>	CBS 107.53	Japan, <i>Pyrus pyrifolia</i>	KP123858	KP124005	KP124613
<i>Alternaria alstroemeriae</i>	<u>EGS 50.116</u>	USA, <i>Alstroemeria</i> sp.	MN975274	MN975303	MN975323
<i>Alternaria arborescens</i>	<u>EGS 39.128</u>	USA, <i>Solanum lycopersicum</i>	MN975269	MN975299	MN975318
<i>Alternaria gaisen</i>	<u>EGS 90.512</u>	Japan, <i>Pyrus pyrifolia</i>	MN975272	MN975301	MN975320
<i>Alternaria tenuissima</i>	SY-4*	China, <i>Dioscorea zingiberensis</i>	MK593137	MK593136	EF503979
<i>Alternaria tenuissima</i>	DES512*	USA, Desert soil	JQ282240	EF504117	EF503988
<i>Alternaria longipes</i>	EGS 30.033	USA, <i>Nicotiana tabacum</i>	MN975273	MN975302	MN975321
<i>Alternaria longipes</i>	CBS 539.94	USA, <i>Nicotiana tabacum</i>	KP123987	KP124146	KP124757
<i>Alternaria longipes</i>	CBS 917.96	USA, <i>Nicotiana tabacum</i>	KP123988	KP124148	KP124759
<i>Alternaria jacinthicola</i>	CBS 878.95	Mauritius, <i>Arachis hypogaea</i>	KP123983	KP124142	KP124753
<i>Alternaria toxicogenica</i>	PR320	USA, <i>Citrus reticulata</i>	JQ646411	AY295027	EF504057
<i>Alternaria arborescens</i>	CPC 25266	Austria, <i>Pyrus</i> sp.	KP123965	KP124122	KP124732
<i>Alternaria burnsii</i>	CBS 107.38	India, <i>Cuminum cyminum</i>	KP123967	KP124124	KP124734
<i>Alternaria burnsii</i>	CBS 118817	India, <i>Tinospora cordifolia</i>	KP123971	KP124128	KP124738
<i>Alternaria eichhorniae</i>	CBS 489.92	India, <i>Eichhornia crassipes</i>	KP123973	KP124130	KP124740
<i>Alternaria gossypina</i>	CBS 104.32	Zimbabwe, <i>Gossypium</i> sp.	JQ646395	KP124135	KP124746
<i>Alternaria gossypina</i>	CBS 102601	Colombia, <i>Minneola tangelo</i>	KP123979	KP124138	KP124749
<i>Alternaria iridialustralis</i>	CBS 118486	Australia, <i>Iris</i> sp.	KP123981	KP124140	KP124751
<i>Alternaria tomato</i>	CBS 103.30	Unknown, <i>Solanum lycopersicum</i>	KP123991	KP124151	KP124762
	<b>ABL2</b>	<b>China, <i>Malus pumila</i></b>	<b>MZ222271</b>	<b>MZ222269</b>	<b>MZ222272</b>

Isolate obtained in this study were marked in bold. The accession number of another fungal strain from GenBank were marked\*.