

Table S1. Fungal endophyte isolates from host *Phragmites australis* species clusters

Sites	Isolates	Closest relative based on homology	Similarity (%)	Genbank accession no.	Division	Class	Order	Family	Genus				
1	Y2H1SPA484	<i>Sarocladium oryzae</i> (T) (NR145045)	99	JX040665	Ascomycota	Ascomycetes	Incertae sedis	Incertae sedis	<i>Sarocladium</i>				
	Y2H1SPA442	<i>Ramichloridium eucleae</i> (T) (NR156590)	99	JX040663			Mycosphaerellales	Dissoconiaceae	<i>Ramichloridium</i>				
	Y2H1SPA255	<i>Cladosporium crousii</i> (T) (NR148192)	99	JX040655		Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>				
	Y2H1SPA371	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	98	JX040658									
	Y2H1SPA254	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	99	JX040654			Pleosporales	Didymosphaeriaceae	<i>Paraconiothyrium</i>				
	Y2H1SPA492	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	99	JX040667									
	Y2H1SPA242	<i>Septoriella hollandica</i> (T) (NR164461)	96	JX040652						Phaeosphaeriaceae	<i>Septoriella</i>		
	Y2H1SPA493	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040668								Pleosporaceae	<i>Alternaria</i>
	Y2H1SPA372	<i>Westerdykella dispersa</i> (T) (NR111187)	99	JX040659									
	Y2H1SPA343	<i>Epicoccum thailandicum</i> (T) (NR152926)	99	JX040657								Didymellaceae	<i>Epicoccum</i>
	Y2H1SPA175	<i>Aspergillus oryzae</i> (T) (NR135395)	98	JX040649		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Aspergillus</i>				
	Y2H1SPA491	<i>Aspergillus oryzae</i> (T) (NR135395)	99	JX040666					<i>Talaromyces</i>				
	Y2H1SPA111	<i>Talaromyces barcinensis</i> (T) (NR137078)	100	JX040644		Sordariomycetes	Hypocreales	Nectriaceae	<i>Clavicipitaceae</i>	<i>Claviceps</i>			
	Y2H1SPA3101	<i>Claviceps monticola</i> (T) (NR164573)	100	JX040660					<i>Fusarium</i>				
	Y2H1SPA342	<i>Fusarium arcuatisporum</i> (T) (NR164593)	99	JX040656					<i>Mariannaea</i>				
	Y2H1SPA174	<i>Fusarium boothii</i> (T) (NR121203)	98	JX040648						<i>Penicillium</i>			
	Y2H1SPA241	<i>Mariannaea pinicola</i> (T) (NR148077)	98	JX040651									
	Y2H1SPA132	<i>Penicillium citrinum</i> (T) (NR121224)	100	JX040645									
	Y2H1SPA441	<i>Pseudonectria foliicola</i> (T) (NR164229)	99	JX040662					<i>Pseudonectria</i>				
	Y2H1SPA482	<i>Pseudonectria foliicola</i> (T) (NR164229)	100	JX040664									
	Y2H1SPA253	<i>Arthrospis truncata</i> (T) (NR159641)	100	JX040653									
	Y2H1SPA144	<i>Microdochium lycopodium</i> (T) (NR145223)	98	JX040646					Xylariales	incertae sedis	incertae sedis	<i>Arthrospis</i>	
	Y2H1SPA3103	<i>Phialemoniopsis curvata</i> (T) (NR132076)	97	JX040661						Hyponectriaceae	<i>Microdochium</i>		
	Y2H1SPA182	<i>Phialemoniopsis curvata</i> (T) (NR132076)	100	JX040650									
	Y2H1SPA152	<i>Phialemoniopsis curvata</i> (T) (NR132076)	98	JX040647									

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Sites	Isolates	Closest relative based on homology	Similarity (%)	Genbank accession no.	Division	Class	Order	Family	Genus
2	Y2H2SPA272	<i>Ramichloridium eucleae</i> (T) (NR156590)	99	JX040683	Ascomycota	Ascomycetes	Mycosphaerellales	Dissoconiaceae	<i>Ramichloridium</i>
	Y2H2SPA151	<i>Cladosporium colombiae</i> (T) (NR119729)	99	JX040671		Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H2SPA271	<i>Cladosporium crousii</i> (T) (NR148192)	99	JX040682					
	Y2H2SPA231	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	98	JX040676					
	Y2H2SPA273	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	100	JX040684					
	Y2H2SPA241	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	99	JX040678					
	Y2H2SPA251	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	99	JX040679					
	Y2H2SPA143	<i>Xenocamarosporium acaciae</i> (T) (NR137982)	87	JX040670					
	Y2H2SPA233	<i>Xenocamarosporium acaciae</i> (T) (NR137982)	87	JX040677					
	Y2H2SPA221	<i>Lentithecium carbonneanum</i> (T) (NR158534)	97	JX040675					
	Y2H2SPA253	<i>Didymocyrtis banksiae</i> (T) (NR154037)	97	JX040681					
	Y2H2SPA211	<i>Loratospora luzulae</i> (T) (NR154121)	100	JX040674					
	Y2H2SPA312	<i>Ophiosphaerella aquatica</i> (T) (NR154352)	99	JX040690					
	Y2H2SPA252	<i>Pyrenochaetopsis microspora</i> (T) (NR160059)	100	JX040680					
	Y2H2SPA121	<i>Epicoccum thailandicum</i> (T) (NR152926)	100	JX040669					
	Y2H2SPA281	<i>Epicoccum thailandicum</i> (T) (NR152926)	100	JX040685					
	Y2H2SPA2103	<i>Aspergillus neoglaber</i> (T) (NR137483)	99	JX040688					
	Y2H2SPA291	<i>Aspergillus oryzae</i> (T) (NR135395)	100	JX040687					
	Y2H2SPA2105	<i>Talaromyces amestolkiae</i> (T) (NR120179)	99	JX040689					
	Y2H2SPA371	<i>Fusarium boothii</i> (T) (NR121203)	99	JX040693					
	Y2H2SPA153	<i>Fusarium luffae</i> (T) (NR164594)	100	JX040672					
	Y2H2SPA322	<i>Penicillium grancanariae</i> (T) (NR138348)	99	JX040691					
	Y2H2SPA1103	<i>Zopfiella marina</i> (T) (NR103599)	98	JX040673					
	Y2H2SPA282	<i>Zopfiella marina</i> (T) (NR103599)	99	JX040686					
	Y2H2SPA341	<i>Phialemoniopsis curvata</i> (T) (NR132076)	98	JX040692					

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Sites	Isolates	Closest relative based on homology	Similarity (%)	Genbank accession no.	Division	Class	Order	Family	Genus
3	Y2H3SPA424	<i>Ramichloridium eucleae</i> (T) (NR156590)	99	JX040724	Ascomycota	Ascomycetes	Mycosphaerellales	Dissoconiaceae	<i>Ramichloridium</i>
	Y2H3SPA211	<i>Cladosporium colombiae</i> (T) (NR119729)	100	JX040699		Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H3SPA183	<i>Cladosporium crousii</i> (T) (NR148192)	100	JX040698					
	Y2H3SPA2104	<i>Cladosporium crousii</i> (T) (NR148192)	99	JX040710					
	Y2H3SPA384	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	99	JX040721					
	Y2H3SPA361	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	100	JX040719					
	Y2H3SPA251	<i>Briansuttonomyces eucalypti</i> (T) (NR153618)	100	JX040702				Didymellaceae	<i>Briansuttonomyces</i>
	Y2H3SPA385	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	100	JX040722				Didymosphaeriaceae	<i>Paraconiothyrium</i>
	Y2H3SPA171	<i>Parastagonospora forlicesenica</i> (T) (NR154366)	99	JX040696				Phaeosphaeriaceae	<i>Parastagonospora</i>
	Y2H3SPA222	<i>Alternaria alstroemeriae</i> (T) (NR163686)	100	JX040700			Pleosporales	Pleosporaceae	<i>Alternaria</i>
	Y2H3SPA284	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040709					
	Y2H3SPA493	<i>Alternaria alstroemeriae</i> (T) (NR163686)	100	JX040729					
	Y2H3SPA271	<i>Exserohilum turcicum</i> (T) (NR163537)	100	JX040703					
	Y2H3SPA274	<i>Leptosphaeria etheridgei</i> (T) (NR111620)	96	JX040705				Leptosphaeriaceae	<i>Leptosphaeria</i>
	Y2H3SPA353	<i>Epicoccum thailandicum</i> (T) (NR152926)	99	JX040718				Didymellaceae	<i>Epicoccum</i>
	Y2H3SPA352	<i>Epicoccum thailandicum</i> (T) (NR152926)	99	JX040717					
	Y2H3SPA323	<i>Aspergillus costaricensis</i> (T) (NR103604)	99	JX040712		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Aspergillus</i>
	Y2H3SPA177	<i>Aspergillus foetidus</i> (T) (NR163668)	100	JX040697					
	Y2H3SPA273	<i>Aspergillus foetidus</i> (T) (NR163668)	98	JX040704					
	Y2H3SPA425	<i>Aspergillus oryzae</i> (T) (NR135395)	100	JX040725					
	Y2H3SPA164	<i>Fusarium arcuatisporum</i> (T) (NR164593)	100	JX040695					
	Y2H3SPA362	<i>Fusarium arcuatisporum</i> (T) (NR164593)	100	JX040720					
	Y2H3SPA485	<i>Fusarium boothii</i> NRRL (T) (NR121203)	100	JX040727					<i>Fusarium</i>
	Y2H3SPA351	<i>Fusarium boothii</i> (T) (NR121203)	99	JX040716					
	Y2H3SPA491	<i>Fusarium luffae</i> (T) (NR164594)	99	JX040728					
	Y2H3SPA282	<i>Penicillium citrinum</i> (T) (NR121224)	99	JX040707		Sordariomycetes	Hypocreales	Nectriaceae	<i>Penicillium</i>
	Y2H3SPA283	<i>Penicillium citrinum</i> (T) (NR121224)	100	JX040708					
	Y2H3SPA321	<i>Penicillium citrinum</i> (T) (NR121224)	100	JX040711					
	Y2H3SPA281	<i>Penicillium citrinum</i> (T) (NR121224)	100	JX040706					
	Y2H3SPA483	<i>Penicillium daejeonium</i> (T) (NR158791)	100	JX040726					
	Y2H3SPA161	<i>Penicillium grancanariae</i> (T) (NR138348)	100	JX040694					
	Y2H3SPA331	<i>Penicillium malacaense</i> (T) (NR121344)	99	JX040714					
	Y2H3SPA324	<i>Pseudonectria foliicola</i> (T) (NR164229)	100	JX040713					<i>Pseudonectria</i>
	Y2H3SPA231	<i>Arthrinium malaysianum</i> (T) (NR120273)	100	JX040701			Xylariales	Apiosporaceae	
	Y2H3SPA4103	<i>Phanerochaete conrescens</i> (T) (NR155027)	100	JX040730	Basidiomycota	Agaricomycetes	Polyporales	Phanerochaetaceae	<i>Phanerochaete</i>
	Y2H3SPA3103	<i>Mucor hiemalis f. hiemalis</i> (T) (NR152948)	97	JX040723	Zygomycota	Mucoromycetes	Mucorales	Mucoraceae	<i>Mucor</i>

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4	Y2H4SPA191	<i>Cladosporium crousii</i> (T) (NR148192)	100	JX040731	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H4SPA251	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	99	JX040733					
	Y2H4SPA322	<i>Aspergillus costaricensis</i> (T) (NR103604)	99	JX040737		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Aspergillus</i>
	Y2H4SPA254	<i>Talaromyces barcinensis</i> (T) (NR137078)	99	JX040735					<i>Talaromyces</i>
	Y2H4SPA391	<i>Talaromyces veerkampii</i> (T) (NR153228)	99	JX040739					
	Y2H4SPA253	<i>Penicillium citrinum</i> (T) (NR121224)	100	JX040734		Sordariomycetes	Hypocreales	Nectriaceae	<i>Penicillium</i>
	Y2H4SPA321	<i>Penicillium citrinum</i> (T) (NR121224)	99	JX040736					
	Y2H4SPA194	<i>Penicillium citrinum</i> (T) (NR121224)	100	JX040732					
	Y2H4SPA332	<i>Phialemoniopsis curvata</i> (T) (NR132076)	97	JX040738			Xylariales	incertae sedis	<i>Phialemoniopsis</i>

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Sites	Isolates	Closest relative based on homology	Similarity (%)	Genbank accession no.	Division	Class	Order	Family	Genus
5	Y2H5SPA311	<i>Cladosporium colombiae</i> (T) (NR119729)	100	JX040750	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H5SPA431	<i>Cladosporium crousii</i> (T) (NR148192)	100	JX040755					
	Y2H5SPA412	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	100	JX040754					
	Y2H5SPA341	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	99	JX040752					
	Y2H5SPA145	<i>Stagonosporopsis lupini</i> (T) (NR160205)	100	JX040746			Pleosporales	Didymellaceae	<i>Stagonosporopsis</i>
	Y2H5SPA112	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	100	JX040741				Didymosphaeriaceae	<i>Paraconiothyrium</i>
	Y2H5SPA491	<i>Xenocamarosporium acaciae</i> (T) (NR137982)	86	JX040759				Sporormiaceae	<i>Xenocamarosporium</i>
	Y2H5SPA482	<i>Westerdykella dispersa</i> (T) (NR111187)	99	JX040758					<i>Westerdykella</i>
	Y2H5SPA142	<i>Aspergillus clavatus</i> (T) (NR121482)	100	JX040745			Eurotiomycetes	Trichocomaceae	<i>Aspergillus</i>
	Y2H5SPA4102	<i>Aspergillus costaricensis</i> (T) (NR103604)	99	JX040761					
	Y2H5SPA151	<i>Aspergillus tubingensis</i> (T) (NR131293)	99	JX040747					
	Y2H5SPA193	<i>Aspergillus tubingensis</i> (T) (NR131293)	100	JX040748					
	Y2H5SPA113	<i>Talaromyces barcinensis</i> (T) (NR137078)	100	JX040742					<i>Talaromyces</i>
	Y2H5SPA141	<i>Talaromyces veerkampii</i> (T) (NR153228)	99	JX040744					
	Y2H5SPA111	<i>Diaporthe citri</i> (T) (NR145304)	100	JX040740			Diaporthales	Diaporthaceae	<i>Diaporthe</i>
	Y2H5SPA232	<i>Fusarium acutatum</i> (T) (NR111142)	99	JX040749					
	Y2H5SPA343	<i>Fusarium boothii</i> (T) (NR121203)	99	JX040753		Sordariomycetes	Hypocreales	Nectriaceae	<i>Fusarium</i>
	Y2H5SPA461	<i>Fusarium luffae</i> (T) (NR164594)	99	JX040756					<i>Penicillium</i>
	Y2H5SPA322	<i>Penicillium citrinum</i> (T) (NR121224)	99	JX040751					
	Y2H5SPA471	<i>Penicillium jacksonii</i> (T) (NR111675)	99	JX040757					
	Y2H5SPA4101	<i>Penicillium pedernalense</i> (T) (NR146250)	99	JX040760					<i>Zopfiella</i>
	Y2H5SPA121	<i>Zopfiella marina</i> (T) (NR103599)	96	JX040743			Sordariales	Lasiosphaeriaceae	

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6	Y2H6SPA313	<i>Cladosporium colombiae</i> (T) (NR119729)	100	JX040764	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H6SPA271	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	100	JX040762					
	Y2H6SPA3101	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	99	JX040767			Pleosporales	Didymosphaeriaceae	<i>Paraconiothyrium</i>
	Y2H6SPA341	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	99	JX040765					
	Y2H6SPA272	<i>Westerdykella dispersa</i> (T) (NR111187)	99	JX040763		Eurotiomycetes	Eurotiales	Sporormiaceae	<i>Westerdykella</i>
	Y2H6SPA343	<i>Talaromyces veerkampii</i> (T) (NR153228)	99	JX040766				Trichocomaceae	<i>Talaromyces</i>

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7	Y2H7SPA173	<i>Cladosporium colombiae</i> (T) (NR119729)	100	JX040771	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H7SPA241	<i>Cladosporium crousii</i> (T) (NR148192)	100	JX040775					
	Y2H7SPA243	<i>Phaeosphaeria podocarpi</i> (T) (NR137933)	100	JX040776			Pleosporales	Phaeosphaeriaceae	<i>Phaeosphaeria</i>
	Y2H7SPA212	<i>Alternaria destruens</i> (T) (NR137143)	100	JX040772				Pleosporaceae	<i>Alternaria</i>
	Y2H7SPA234	<i>Talaromyces barcinensis</i> (T) (NR137078)	99	JX040774		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Talaromyces</i>
	Y2H7SPA131	<i>Fusarium fujikuroi</i> (T) (NR111889)	100	JX040768		Sordariomycetes	Hypocreales	Nectriaceae	<i>Fusarium</i>
	Y2H7SPA231	<i>Fusarium hainanense</i> (T) (NR164597)	100	JX040773					
	Y2H7SPA172	<i>Fusarium hainanense</i> (T) (NR164597)	99	JX040770					
	Y2H7SPA152	<i>Phialemoniopsis curvata</i> (T) (NR132076)	97	JX040769					

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8	Y2H8SPA113	<i>Leptoxyphium glochidion</i> (T) (NR155316)	99	JX040779	Ascomycota	Dothideomycetes	Capnodiales	Capnodiaceae	<i>Leptoxyphium</i>
	Y2H8SPA114	<i>Cladosporium crousii</i> (T) (NR148192)	100	JX040780				Davidiellaceae	<i>Cladosporium</i>
	Y2H8SPA194	<i>Cladosporium crousii</i> (T) (NR148192)	99	JX040784			Pleosporales	Phaeosphaeriaceae	<i>Septoriella</i>
	Y2H8SPA213	<i>Septoriella hollandica</i> (T) (NR164461)	99	JX040786				Pleosporaceae	<i>Exserohilum</i>
	Y2H8SPA112	<i>Septoriella hollandica</i> (T) (NR164461)	99	JX040778				Didymellaceae	<i>Epicoccum</i>
	Y2H8SPA1102	<i>Exserohilum turcicum</i> (T) (NR163537)	99	JX040785					
	Y2H8SPA111	<i>Epicoccum phragmospora</i> (T) (NR165920)	100	JX040777		Sordariomycetes	Hypocreales	Nectriaceae	<i>Fusarium</i>
	Y2H8SPA193	<i>Fusarium fujikuroi</i> (T) (NR111889)	100	JX040783					<i>Penicillium</i>
	Y2H8SPA232	<i>Fusarium hainanense</i> (T) (NR164597)	100	JX040788			Xylariales	Apiosporaceae	<i>Arthrinium</i>
	Y2H8SPA131	<i>Fusarium luffiae</i> (T) (NR164594)	100	JX040781				incertae sedis	<i>Phialemoniopsis</i>
	Y2H8SPA251	<i>Penicillium camponotum</i> (T) (NR158823)	100	JX040789					
	Y2H8SPA231	<i>Arthrinium malaysianum</i> (T) (NR120273)	100	JX040787					
	Y2H8SPA191	<i>Phialemoniopsis curvata</i> (T) (NR132076)	98	JX040782					

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9	Y2H9SPA113	<i>Cladosporium crousii</i> (T) (NR148192)	100	JX040790	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>		
	Y2H9SPA131	<i>Exserohilum turcicum</i> (T) (NR163537)	100	JX040791			Pleosporales	Pleosporaceae	<i>Exserohilum</i>		
	Y2H9SPA141	<i>Talaromyces barcinensis</i> (T) (NR137078)	99	JX040792		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Talaromyces</i>		
	Y2H9SPA241	<i>Talaromyces barcinensis</i> (T) (NR137078)	100	JX040798							
	Y2H9SPA263	<i>Simplicillium aogashimaense</i> (T) (NR111026)	100	JX040800					Cordycipitaceae	<i>Simplicillium</i>	
	Y2H9SPA181	<i>Fusarium arcuatisporum</i> (T) (NR164593)	100	JX040795		Sordariomycetes			Hypocreales	Nectriaceae	<i>Fusarium</i>
	Y2H9SPA211	<i>Fusarium arcuatisporum</i> (T) (NR164593)	99	JX040796							
	Y2H9SPA143	<i>Fusarium arcuatisporum</i> (T) (NR164593)	100	JX040793							
	Y2H9SPA161	<i>Fusarium luffae</i> (T) (NR164594)	100	JX040794							
	Y2H9SPA242	<i>Penicillium reticulisporum</i> (T) (NR121231)	99	JX040799							
	Y2H9SPA441	<i>Penicillium rubens</i> (T) (NR111815)	100	JX040801							

Table S1. Fungal endophyte isolates from host *Phragmites australis* species clusters (continued)

Sites	Isolates	Closest relative based on homology	Similarity (%)	Genbank accession no.	Division	Class	Order	Family	Genus
10	Y2H10SPA111	<i>Cladosporium crousii</i> (T) (NR148192)	100	JX040802	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H10SPA251	<i>Cladosporium crousii</i> (T) (NR148192)	100	JX040816					
	Y2H10SPA131	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	98	JX040803			Pleosporales	Didymosphaeriaceae	<i>Paraconiothyrium</i>
	Y2H10SPA163	<i>Paraphaeosphaeria verruculosa</i> T) (NR163521)	97	JX040808					<i>Paraphaeosphaeria</i>
	Y2H10SPA252	<i>Alternaria alstroemeriae</i> (T) (NR163686)	100	JX040817				Pleosporaceae	<i>Alternaria</i>
	Y2H10SPA142	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040804					
	Y2H10SPA211	<i>Alternaria alstroemeriae</i> (T) (NR163686)	100	JX040814					
	Y2H10SPA212	<i>Alternaria alstroemeriae</i> (T) (NR163686)	100	JX040815					
	Y2H10SPA182	<i>Aspergillus clavatus</i> (T) (NR121482)	100	JX040810		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Aspergillus</i>
	Y2H10SPA1103	<i>Talaromyces californicus</i> (T) (NR165527)	99	JX040813					<i>Talaromyces</i>
	Y2H10SPA181	<i>Lecanicillium coprophilum</i> (T) (NR163303)	100	JX040809	Sordariomycetes	Hypocreales	Cordycipitaceae	Nectriaceae	<i>Lecanicillium</i>
	Y2H10SPA162	<i>Fusarium arcuatisporum</i> (T) (NR164593)	100	JX040807					<i>Fusarium</i>
	Y2H10SPA1101	<i>Penicillium oxalicum</i> (T) (NR121232)	100	JX040812					<i>Penicillium</i>
	Y2H10SPA143	<i>Phialemoniopsis curvata</i> (T) (NR132076)	98	JX040805			Xylariales	incertae sedis	<i>Phialemoniopsis</i>
	Y2H10SPA161	<i>Phialemoniopsis curvata</i> (T) (NR132076)	98	JX040806					
	Y2H10SPA193	<i>Phialemoniopsis hongkongensis</i> (T) (NR149339)	100	JX040811					

Table S1. Fungal endophyte isolates from host *Phragmites australis* species clusters (continued)

Sites	Isolates	Closest relative based on homology	Similarity (%)	Genbank accession no.	Division	Class	Order	Family	Genus
11	Y2H11SPA213	<i>Cladosporium colombiae</i> (T) (NR119729)	100	JX040824	Ascomycota	<i>Dothideomycetes</i>	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H11SPA121	<i>Cladosporium crousii</i> (T) (NR148192)	100	JX040819					
	Y2H11SPA191	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	100	JX040823					
	Y2H11SPA231	<i>Epicoccum thailandicum</i> (T) (NR152926)	99	JX040826		<i>Leotiomycetes</i>	Thelebolales	<i>Pseudeurotium</i>	<i>Epicoccum</i>
	Y2H11SPA161	<i>Pseudeurotium bakeri</i> (T) (NR145345)	98	JX040821					<i>Pseudeurotium</i>
	Y2H11SPA221	<i>Fusarium arcuatisporum</i> (T) (NR164593)	100	JX040825				<i>Sordariomycetes</i>	Hypocreales
	Y2H11SPA111	<i>Penicillium oxalicum</i> (T) (NR121232)	100	JX040818		<i>Penicillium</i>			
	Y2H11SPA181	<i>Parasarocladium gamsii</i> (T) (NR159615)	100	JX040822		<i>Sarocladiaceae</i>	<i>Parasarocladium</i>		