

Table S2. Fungal endophyte isolates from host *Sueda japonica* species clusters (continued)

Sites	Isolates	Closest relative based on homology	Similarity (%)	Genbank accession no.	Division	Class	Order	Family	Genus
1	Y2H1SS341	<i>Eutypella parasitica</i> (T) (NR165995)	98	JX040839	Ascomycota	Ascomycetes	Xylariales	Diatrypaceae	<i>Eutypella</i>
	Y2H1SS162	<i>Pseudopithomyces angolensis</i> (T) (NR161121)	99	JX040831		Dothideomycetes	Pleosporales	Didymosphaeriaceae	<i>Pseudopithomyces</i>
	Y2H1SS231	<i>Alternaria thalictrigena</i> (T) (NR135937)	100	JX040834				Pleosporaceae	<i>Alternaria</i>
	Y2H1SS2101	<i>Dimorphosporicola tragani</i> (T) (NR154007)	99	JX040837					<i>Dimorphosporicola</i>
	Y2H1SS113	<i>Aspergillus costaricensis</i> (T) (NR103604)	99	JX040829		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Aspergillus</i>
	Y2H1SS272	<i>Aspergillus terreus</i> (T) (NR131276)	100	JX040836					<i>Talaromyces</i>
	Y2H1SS232	<i>Aspergillus tubingensis</i> (T) (NR131293)	91	JX040835					
	Y2H1SS321	<i>Talaromyces amestolkiae</i> (T) (NR120179)	99	JX040838				Diaporthales	<i>Diaporthe</i>
	Y2H1SS111	<i>Diaporthe caulivora</i> (T) (NR111845)	99	JX040827					
	Y2H1SS141	<i>Penicillium citrinum</i> (T) (NR121224)	89	JX040830		Sordariomycetes	Hypocreales	Nectriaceae	<i>Penicillium</i>
	Y2H1SS211	<i>Penicillium grancanariae</i> (T) (NR138348)	99	JX040832					
	Y2H1SS361	<i>Penicillium thomii</i> (T) (NR077159)	99	JX040841					
	Y2H1SS112	<i>Penicillium thomii</i> (T) (NR077159)	99	JX040828					
	Y2H1SS212	<i>Psilocybe quebecensis</i> (T) (NR160108)	85	JX040833	Basidiomycota	Agaricomycetes	Agaricales	Hymenogastraceae	<i>Psilocybe</i>
	Y2H1SS352	<i>Trametes versicolor</i> (T) (NR154494)	99	JX040840		Agaricomycetes	Polyporales	Polyporaceae	<i>Trametes</i>

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2	Y2H2SS2101	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	99	JX040853	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H2SS393	<i>Aureobasidium melanogenum</i> (T) (NR159598)	93	JX040858			Dothideales	Dothioraceae	<i>Aureobasidium</i>
	Y2H2SS162	<i>Loratospora luzulae</i> (T) (NR154121)	100	JX040846			Pleosporales	Phaeosphaeriaceae	<i>Loratospora</i>
	Y2H2SS113	<i>Phaeosphaeria podocarpi</i> (T) (NR137933)	99	JX040842					<i>Phaeosphaeria</i>
	Y2H2SS311	<i>Septoriella hollandica</i> (T) (NR164461)	96	JX040854					<i>Septoriella</i>
	Y2H2SS163	<i>Stagonospora trichophoricola</i> (T) (NR156586)	99	JX040847					<i>Stagonospora</i>
	Y2H2SS181	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040849				Pleosporaceae	<i>Alternaria</i>
	Y2H2SS132	<i>Aspergillus oryzae</i> (T) (NR135395)	99	JX040844		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Aspergillus</i>
	Y2H2SS322	<i>Aspergillus oryzae</i> (T) (NR135395)	97	JX040855					
	Y2H2SS392	<i>Aspergillus welwitschiae</i> (T) (NR137513)	98	JX040857			Diaporthales	Diaporthaceae	<i>Diaporthe</i>
	Y2H2SS224	<i>Diaporthe caulivora</i> (T) (NR111845)	97	JX040850					
	Y2H2SS121	<i>Colletotrichum alienum</i> (T) (NR120141)	99	JX040843		Sordariomycetes	Glomerellales	Glomerellaceae	<i>Colletotrichum</i>
	Y2H2SS171	<i>Colletotrichum alienum</i> (T) (NR120141)	97	JX040848					
	Y2H2SS291	<i>Colletotrichum bletillum</i> (T) (NR160994)	99	JX040852					
	Y2H2SS3101	<i>Colletotrichum cobbittense</i> (T) (NR163538)	99	JX040859					
	Y2H2SS231	<i>Colletotrichum cobbittense</i> (T) (NR163538)	99	JX040851					
	Y2H2SS391	<i>Colletotrichum gloeosporioides</i> (T) (NR160754)	96	JX040856					
	Y2H2SS161	<i>Penicillium oxalicum</i> (T) (NR121232)	99	JX040845			Hypocreales	Nectriaceae	<i>Penicillium</i>

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3	Y2H3SS333	<i>Ramichloridium eucleae</i> (T) (NR156590)	100	JX040874	Ascomycota	Ascomycetes	Mycosphaerellales	Dissoconiaceae	<i>Ramichloridium</i>
	Y2H3SS345	<i>Cladosporium antarcticum</i> (T) (NR121332)	99	JX040877		Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H3SS341	<i>Cladosporium colombiae</i> (T) (NR119729)	97	JX040876					
	Y2H3SS271	<i>Cladosporium colombiae</i> (T) (NR119729)	93	JX040870					
	Y2H3SS261	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	100	JX040869					
	Y2H3SS272	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	98	JX040871					
	Y2H3SS334	<i>Cercospora musigena</i> (T) (NR147294)	98	JX040875				Mycosphaerellaceae	<i>Cercospora</i>
	Y2H3SS172	<i>Aureobasidium melanogenum</i> (T) (NR159598)	99	JX040865			Dothideales	Dothioraceae	<i>Aureobasidium</i>
	Y2H3SS131	<i>Briansuttonomyces eucalypti</i> (T) (NR153618)	98	JX040861				Didymellaceae	<i>Briansuttonomyces</i>
	Y2H3SS392	<i>Paracamarosporium hawaiiense</i> (T) (NR154287)	100	JX040881			Pleosporales	Didymosphaeriaceae	<i>Paracamarosporium</i>
	Y2H3SS463	<i>Paracamarosporium hawaiiense</i> (T) (NR154287)	98	JX040889					
	Y2H3SS132	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	98	JX040862					
	Y2H3SS121	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	99	JX040860					
	Y2H3SS454	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	99	JX040886					
	Y2H3SS281	<i>Lentithecium carbonneanum</i> (T) (NR158534)	94	JX040872				Lentitheciaceae	<i>Lentithecium</i>
	Y2H3SS421	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040884				Pleosporaceae	<i>Alternaria</i>
	Y2H3SS391	<i>Dimorphosporicola tragani</i> (T) (NR154007)	93	JX040880					<i>Dimorphosporicola</i>
	Y2H3SS193	<i>Aspergillus clavatus</i> (T) (NR121482)	87	JX040867		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Aspergillus</i>
	Y2H3SS451	<i>Aspergillus costaricensis</i> (T) (NR103604)	100	JX040885					
	Y2H3SS461	<i>Aspergillus costaricensis</i> (T) (NR103604)	99	JX040887		Sordariomycetes	Glomerellales	Glomerellaceae	<i>Colletotrichum</i>
	Y2H3SS161	<i>Colletotrichum aenigma</i> (T) (NR120140)	97	JX040863					
	Y2H3SS371	<i>Fusarium arcuatissporum</i> (T) (NR164593)	100	JX040879			Hypocreales	Nectriaceae	<i>Fusarium</i>
	Y2H3SS471	<i>Fusarium arcuatissporum</i> (T) (NR164593)	99	JX040890					
	Y2H3SS191	<i>Fusarium circinatum</i> (T) (NR120263)	99	JX040866					
	Y2H3SS231	<i>Fusarium luffae</i> (T) (NR164594)	99	JX040868					
	Y2H3SS291	<i>Fusarium luffae</i> (T) (NR164594)	98	JX040873					
	Y2H3SS3101	<i>Fusarium pseudoanthophilum</i> (T) (NR163682)	97	JX040882					
	Y2H3SS171	<i>Penicillium grancanariae</i> (T) (NR138348)	99	JX040864					<i>Penicillium</i>
	Y2H3SS412	<i>Penicillium pedernalense</i> (T) (NR146250)	87	JX040883					
	Y2H3SS462	<i>Penicillium thomii</i> (T) (NR077159)	100	JX040888					
	Y2H3SS361	<i>Phanerochaete canobrunnea</i> (T) (NR160571)	97	JX040878	Basidiomycota	Agaricomycetes	Polyporales	Phanerochaetaceae	Phanerochaete

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4	Y2H4SS111	<i>Fusarium langsethiae</i> (T) (NR121214)	100	JX040891	Ascomycota	Ascomycetes	Xylariales	Diatrypaceae	<i>Peroneutypa</i>			
	Y2H4SS132	<i>Peroneutypa mackenziei</i> (T) (NR154363)	99	JX040892		Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>			
	Y2H4SS141	<i>Aureobasidium melanogenum</i> (T) (NR159598)	100	JX040893								
	Y2H4SS143	<i>Dimorphosporicola tragani</i> (T) (NR154007)	92	JX040894								
	Y2H4SS152	<i>Dimorphosporicola tragani</i> (T) (NR154007)	92	JX040895								
	Y2H4SS161	<i>Fusarium ipomoeae</i> (T) (NR164596)	98	JX040896			Dothideales	Dothioraceae	<i>Aureobasidium</i>			
	Y2H4SS192	<i>Aspergillus oryzae</i> (T) (NR135395)	98	JX040897				Didymosphaeriaceae	<i>Xenocamarosporium</i>			
	Y2H4SS1101	<i>Talaromyces erythromellis</i> (T) (NR121531)	99	JX040898				Phaeosphaeriaceae	<i>Septoriella</i>			
	Y2H4SS251	<i>Aspergillus tubingensis</i> (T) (NR131293)	99	JX040899			Pleosporales	Pleosporaceae	<i>Alternaria</i>			
	Y2H4SS252	<i>Septoriella hubertusii</i> (T) (NR155786)	97	JX040900								
	Y2H4SS262	<i>Alternaria alstroemeriae</i> (T) (NR163686)	100	JX040901								
	Y2H4SS271	<i>Rhodosporidiobolus odoratus</i> (T) (NR155731)	99	JX040902								
	Y2H4SS275	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	99	JX040903		Eurotiomycetes	Eurotiales	Trichocomaceae	<i>Aspergillus</i>			
	Y2H4SS312	<i>Xenocamarosporium acaciae</i> (T) (NR137982)	85	JX040904								
	Y2H4SS341	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	99	JX040905								
	Y2H4SS342	<i>Fusarium arcuatisporum</i> (T) (NR164593)	99	JX040906								
	Y2H4SS361	<i>Fusarium arcuatisporum</i> (T) (NR164593)	100	JX040907								
	Y2H4SS363	<i>Diaporthe ganjae</i> (T) (NR120259)	99	JX040908								
	Y2H4SS395	<i>Diaporthe caulivora</i> (T) (NR111845)	99	JX040909								
	Y2H4SS414	<i>Alternaria alstroemeriae</i> (T) (NR163686)	97	JX040910								
	Y2H4SS421	<i>Penicillium citrinum</i> (T) (NR121224)	100	JX040911								
	Y2H4SS424	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	99	JX040912						Sordariomycetes	Hypocreales	Nectriaceae
	Y2H4SS433	<i>Penicillium mallochii</i> (T) (NR111674)	99	JX040913								
	Y2H4SS434	<i>Cladosporium domesticum</i> (T) (NR156348)	100	JX040914								
	Y2H4SS441	<i>Penicillium maximae</i> (T) (NR121343)	99	JX040915								
	Y2H4SS442	<i>Penicillium brasilianum</i> (T) (NR111499)	87	JX040916								
	Y2H4SS451	<i>Aspergillus oryzae</i> (T) (NR135395)	99	JX040917								
	Y2H4SS463	<i>Penicillium grancanariae</i> (T) (NR138348)	99	JX040918								
	Y2H4SS471	<i>Aspergillus awamori</i> (T) (NR077143)	99	JX040919		Basidiomycota	Microbotryomycetes	Sporidiobolales	Sporidiobolaceae			

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5	Y2H5SS221	<i>Cladosporium colombiae</i> (T) (NR119729)	100	JX040933	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>
	Y2H5SS232	<i>Cladosporium crousii</i> (T) (NR148192)	99	JX040935					
	Y2H5SS1103	<i>Cladosporium pini-ponderosae</i> (T) (NR119730)	99	JX040931			Dothideales	Dothioraceae	<i>Aureobasidium</i>
	Y2H5SS133	<i>Aureobasidium namibiae</i> (T) (NR147362)	96	JX040925					
	Y2H5SS112	<i>Peyronellaea prosopidis</i> (T) (NR137836)	100	JX040921				Didymellaceae	<i>Peyronellaea</i>
	Y2H5SS243	<i>Stagonosporopsis lupin</i> (T) (NR160205)	97	JX040938					
	Y2H5SS121	<i>Stagonosporopsis lupini</i> (T) (NR160205)	100	JX040922				Didymosphaeriaceae	<i>Stagonosporopsis</i>
	Y2H5SS131	<i>Paraconiothyrium estuarinum</i> (T) (NR166007)	99	JX040923					
	Y2H5SS152	<i>Alternaria alstroemeriae</i> (T) (NR163686)	100	JX040926			Pleosporales	Pleosporaceae	<i>Alternaria</i>
	Y2H5SS132	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040924					
	Y2H5SS281	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040939				Didymellaceae	<i>Epicoccum</i>
	Y2H5SS282	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040940					
	Y2H5SS161	<i>Dimorphosporicola tragani</i> (T) (NR154007)	94	JX040927				Glomerellaceae	<i>Colletotrichum</i>
	Y2H5SS233	<i>Dimorphosporicola tragani</i> (T) (NR154007)	93	JX040936					
	Y2H5SS231	<i>Epicoccum thailandicum</i> (T) (NR152926)	100	JX040934			Eurotiomycetes	Eurotiales	Trichocomaceae
	Y2H5SS111	<i>Aspergillus oryzae</i> (T) (NR135395)	99	JX040920					
	Y2H5SS1101	<i>Colletotrichum cobbittense</i> (T) (NR163538)	99	JX040930			Glomerellales	Glomerellaceae	<i>Fusarium</i>
	Y2H5SS283	<i>Fusarium arcuatisporum</i> (T) (NR164593)	98	JX040941					
	Y2H5SS213	<i>Fusarium ipomoeae</i> (T) (NR164596)	99	JX040932		Sordariomycetes	Hypocreales	Nectriaceae	<i>Penicillium</i>
	Y2H5SS191	<i>Penicillium oxalicum</i> (T) (NR121232)	89	JX040929					
	Y2H5SS351	<i>Ceriporia sordescens</i> (T) (NR148119)	99	JX040942	Basidiomycota	Agaricomycetes	Polyporales	Irpicaceae	<i>Ceriporia</i>
	Y2H5SS241	<i>Flavodon ambrosius</i> (T) (NR154000)	100	JX040937					
	Y2H5SS164	<i>Rhodosporeidiobolus odoratus</i> (T) (NR155731)	100	JX040928		Microbotryomycetes	Sporidiobolales	Sporidiobolaceae	<i>Rhodosporeidiobolus</i>

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6	Y2H6SS221	<i>Cladosporium colombiae</i> (T) (NR119729)	98	JX040956	Ascomycota	Dothideomycetes	Capnodiales	Davidiellaceae	<i>Cladosporium</i>		
	Y2H6SS261	<i>Cladosporium colombiae</i> (T) (NR119729)	100	JX040961							
	Y2H6SS192	<i>Cladosporium tenuissimum</i> (T) (NR119855)	98	JX040952						Dothideales	Dothioraceae
	Y2H6SS122	<i>Aureobasidium melanogenum</i> (T) (NR159598)	100	JX040945							
	Y2H6SS191	<i>Peyronellaea prosopidis</i> (T) (NR137836)	99	JX040951			Didymellaceae	<i>Peyronellaea</i>			
	Y2H6SS471	<i>Peyronellaea prosopidis</i> (T) (NR137836)	99	JX040969							
	Y2H6SS1101	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040953							
	Y2H6SS213	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040955			Pleosporales	Pleosporaceae	<i>Alternaria</i>		
	Y2H6SS251	<i>Alternaria alstroemeriae</i> (T) (NR163686)	100	JX040960							
	Y2H6SS282	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040964							
	Y2H6SS283	<i>Alternaria alstroemeriae</i> (T) (NR163686)	100	JX040965					<i>Curvularia</i>		
	Y2H6SS352	<i>Alternaria alstroemeriae</i> (T) (NR163686)	99	JX040966							
	Y2H6SS114	<i>Curvularia pseudobrachyspora</i> (T) (NR164423)	99	JX040944							
	Y2H6SS212	<i>Dimorphosporicola tragani</i> (T) (NR154007)	94	JX040954					<i>Dimorphosporicola</i>		
	Y2H6SS231	<i>Stemphylium lycopersici</i> (T) (NR155002)	96	JX040957							
	Y2H6SS141	<i>Aspergillus costaricensis</i> (T) (NR103604)	99	JX040949						Eurotiomycetes	Eurotiales
	Y2H6SS241	<i>Aspergillus costaricensis</i> (T) (NR103604)	100	JX040958							
	Y2H6SS411	<i>Aspergillus tubingensis</i> (T) (NR131293)	100	JX040968							
	Y2H6SS281	<i>Colletotrichum alienum</i> (T) (NR120141)	100	JX040963					Glomerellales	Glomerellaceae	<i>Colletotrichum</i>
	Y2H6SS263	<i>Colletotrichum alienum</i> (T) (NR120141)	100	JX040962							
	Y2H6SS381	<i>Colletotrichum queenslandicum</i> (T) (NR144796)	100	JX040967							
	Y2H6SS133	<i>Fusarium arcuatisporum</i> (T) (NR164593)	99	JX040948							<i>Fusarium</i>
	Y2H6SS4101	<i>Penicillium brasilianum</i> (T) (NR111499)	86	JX040970							
	Y2H6SS242	<i>Penicillium brevicompactum</i> (T) (NR121299)	99	JX040959							
	Y2H6SS151	<i>Penicillium citrinum</i> (T) (NR121224)	100	JX040950							
	Y2H6SS112	<i>Penicillium daejeonium</i> (T) (NR158791)	99	JX040943							
	Y2H6SS131	<i>Penicillium grancanariae</i> (T) (NR138348)	99	JX040946							
	Y2H6SS132	<i>Penicillium grancanariae</i> (T) (NR138348)	100	JX040947							