

SUPPLEMENTAL TABLE S4. GenBank sequences removed from phylogenetic analyses because of conflict (as defined in Materials and Methods) detected among single-locus phylogenies. In bold are shown sequences representing potential contaminants (endolichenic fungi or unrelated lichen-forming taxa).

Taxon/GI	mitSSU	nucSSU	nucLSU	<i>RPB1</i> A-F	<i>RPB1</i> F-G	<i>RPB2</i> 5-7	<i>RPB2</i> 7-11
<i>Ainoa geochroa</i>			113967784				
<i>Alectoria ochroleuca</i>	113473509						
<i>Alectoria sarmentosa</i>	113473511						
<i>Anzia colpodes</i>	113473513						
<i>Bacidina arnoldiana</i>						194320148	
<i>Belonia russula</i>		248570288					
<i>Biatora meiocarpa</i>							148593961
<i>Boreoplaca ultrafrigida</i>						194320142	
<i>Bryoria trichodes</i>							194320195
<i>Candelaria concolor</i>							194320136
<i>Candelariella terrigena</i>	119514141						
<i>Coccocarpia domingensis</i>		119642794				119644233	
<i>Collema furfuraceum</i>			34148719				
<i>Collema nigrescens</i>			285919260				
<i>Collema parvum</i>			285919261				
<i>Cryptolechia</i> sp.			156739935				
<i>Cyanodermella viridula</i>	310017583						
<i>Dactylina arctica</i>		118638313					
<i>Flavopunctelia flaventior</i>						119644029	
<i>Fuscopannaria mediterranea</i>						194320189	
<i>Gyalecta flotowii</i>			37960797				
<i>Gyalideopsis vulgaris</i>		46411414	46411438	113707383	113707383		
<i>Lasallia pustulata</i>			37960798				
<i>Lecanora achariana</i>						123979325	
<i>Lecanora hybocarpa</i>						110669601	

<i>Lepraria lobificans</i>				119514071				
<i>Lobarina scrobiculata</i>								113957139
<i>Loxospora cismonica</i>		119513952						
<i>Micarea assimilata</i>			169634961					
<i>Ostropa barbara</i>								46411495
<i>Petractis luetkemuellerei</i>	46411469							
<i>Porina guentheri</i>				248570323				
<i>Protopannaria pezizoides</i>		119642840		119643911				
<i>Pseudocyphellaria crocata</i>		40557672						
<i>Pseudocyphellaria scabrosa</i>			194273512					
<i>Psora decipiens</i>	119514120							
<i>Psorula rufonigra</i>	71657020							
<i>Ramalina complanata</i>		113707429						
<i>Rhizocarpon oederi</i>			311235573					
<i>Scoliciosporum holomelaenum</i>				71727290				
<i>Tephromela atra</i>				119514063				
<i>Teloschistes exilis</i>						113707381		
<i>Thelotrema rugatulum</i>			156739965					
<i>Trapeliopsis flexuosa</i>		119513919						
<i>Usnea sphacelata</i>	119366167							
<i>Rusavskia elegans</i>				123979359				
<i>Xanthoparmelia conspersa</i>						119643729		
Total number:	9	9	12	7	3	7		5