

**Table S1** Specimens and sequences for phylogenetic analysis

Species	Specimen No.	Country	Collector	ITS	nuLSU	nuSSU	TEF1- $\alpha$	RPB2
<i>Flavobathelium epiphyllum</i>	MPN67				GU327717	JN887382	JN887423	—
<i>Phyllobathelium anomalum</i>	MPN242				GU327722	JN887386	JN887430	—
<i>Phylloporis cf. obducta</i>	<b>HMAS-L0139218</b>	China	S.H. Jiang	<b>MW344124</b>	MN720034	MN727002	MN738504	MN738529
<i>P. cf. obducta</i>	<b>HMAS-L0139222</b>	China	S.H. Jiang	<b>MW344125</b>				
<i>P. cf. obducta</i>	<b>HMAS-L0139237</b>	China	S.H. Jiang	<b>MW344126</b>				
<i>P. cf. obducta</i>	<b>HMAS-L0139246</b>	China	S.H. Jiang	<b>MW344127</b>				
<i>P. cf. obducta</i>	<b>HMAS-L0139247</b>	China	S.H. Jiang	<b>MW344128</b>	MN720035	MN727003	MN738505	MN738530
<i>P. cf. obducta</i>	<b>HMAS-L0139251</b>	China	S.H. Jiang	<b>MW344129</b>				
<i>P. cf. obducta</i>	<b>HMAS-L0139282</b>	China	S.H. Jiang	<b>MW344130</b>				
<i>P. cf. obducta</i>	<b>HMAS-L0139284</b>	China	S.H. Jiang	<b>MW344131</b>				
<i>P. cf. obducta</i>	<b>HMAS-L0139286</b>	China	S.H. Jiang	<b>MW344132</b>	MN720036	MN727004	MN738506	MN738531
<i>P. cf. obducta</i>	<b>HMAS-L0139324</b>	China	S.H. Jiang	<b>MW344133</b>				
<i>P. cf. obducta</i>	<b>HMAS-L0139339</b>	China	X.L. Wei & S.H. Jiang	<b>MW344134</b>	MN720037	MN727005	MN738507	MN738532
<i>P. cf. obducta</i>	<b>HMAS-L0139635</b>	China	S.H. Jiang	<b>MW344135</b>	MN720038	MN727006	MN738508	MN738533
<i>P. palmae</i>	<b>ISE-33374</b>	Brazil	R. Lücking et al.	<b>MW344136</b>				
<i>P. palmae</i>	<b>ISE-33667</b>	Brazil	R. Lücking et al.	<b>MW344137</b>				
<i>P. palmae</i>	<b>ISE-33670</b>	Brazil	R. Lücking et al.	<b>MW344138</b>				
<i>P. phyllogena</i>	<b>ISE-33944</b>	Brazil	R. Lücking et al.	<b>MW344139</b>	MN720039	MN727007	MN738509	MN738534
<i>Puiggariella confluens</i>	<b>B600205040</b>	Guatemala	R. Lücking et al.	<b>MW344140</b>				
<i>Pui. confluens</i>	<b>B600205073</b>	Costa Rica	R. Lücking et al.	<b>MW344141</b>				
<i>Pui. confluens</i>	<b>B600205074</b>	Costa Rica	R. Lücking et al.	<b>MW344142</b>				
<i>Pui. nemathora</i>	<b>ISE-32586</b>	Brazil	R. Lücking et al.	<b>MW344143</b>	—	MN727009	MN738510	—
<i>Pui. nemathora</i>	<b>ISE-32794</b>	Brazil	R. Lücking et al.	<b>MW344144</b>	—	MN727008	—	MN738535
<i>Pui. nigrocincta</i>	<b>HMAS-L0139188</b>	China	X.Y. Liu	<b>MW344145</b>				
<i>Pui. nigrocincta</i>	<b>HMAS-L0139194</b>	China	X.Y. Liu	<b>MW344146</b>				
<i>Pui. nigrocincta</i>	<b>HMAS-L0139287</b>	China	S.H. Jiang	<b>MW344147</b>				
<i>Pui. nigrocincta</i>	<b>HMAS-L0139335</b>	China	X.L. Wei & S.H. Jiang	<b>MW344148</b>	MN720040	MN727010	MN738511	MN738536
<i>Pui. nigrocincta</i>	<b>HMAS-L0139350</b>	China	X.L. Wei & S.H. Jiang	<b>MW344149</b>	MN720041	MN727011	MN738512	MN738537
<i>Pui. nigrocincta</i>	<b>HMAS-L0139360</b>	China	X.L. Wei & S.H. Jiang	<b>MW344150</b>				
<i>Pui. nigrocincta</i>	<b>HMAS-L0139366</b>	China	X.L. Wei & S.H. Jiang	<b>MW344151</b>				
<i>Pui. nigrocincta</i>	<b>HMAS-L0139368</b>	China	X.L. Wei & S.H. Jiang	<b>MW344152</b>				
<i>Pui. nigrocincta</i>	<b>HMAS-L0139370</b>	China	X.L. Wei & S.H. Jiang	<b>MW344153</b>				

<i>Pui. nigrocincta</i>	<b>HMAS-L0141541</b>	China	X.L. Wei & S.H. Jiang	<b>MW344154</b>	MN720042	MN727012	MN738513	MN738538
<i>Pui. nigrocincta</i>	<b>HMAS-L0141544</b>	China	X.L. Wei & S.H. Jiang	<b>MW344155</b>				
<i>Pui. nigrocincta</i>	<b>HMAS-L0141549</b>	China	X.L. Wei & S.H. Jiang	<b>MW344156</b>				
<i>Raciborskia janeirensis</i>	<b>HMAS-L0130589</b>	China	J.H. Wang & R.D. Liu	<b>MW344157</b>	MN720043	MN727013	MN738514	—
<i>Raci. janeirensis</i>	<b>HMAS-L0137672</b>	China	J.C. Wei	<b>MW344158</b>				
<i>Raci. talaumae</i>	<b>HMAS-L0139624</b>	China	S.H. Jiang	<b>MW344159</b>	MN720044	MN727014	MN738515	—
<i>Raci. talaumae</i>	<b>HMAS-L0139625</b>	China	S.H. Jiang	<b>MW344160</b>				
<i>Raci. talaumae</i>	<b>HMAS-L0139626</b>	China	S.H. Jiang	<b>MW344161</b>				
<i>Raci. talaumae</i>	<b>HMAS-L0139627</b>	China	S.H. Jiang	<b>MW344162</b>	MN720045	MN727015	MN738516	—
<i>Raci. talaumae</i>	<b>HMAS-L0139628</b>	China	S.H. Jiang	<b>MW344163</b>				
<i>Raci. talaumae</i>	<b>HMAS-L0139629</b>	China	S.H. Jiang	<b>MW344164</b>				
<i>Racoplaca macrospora</i> sp. nov.	<b>HMAS-L0139207</b>	China	X.L. Wei & J.H. Wang	<b>MW344165</b>				
<i>R. macrospora</i> sp. nov.	<b>HMAS-L0139274</b>	China	X.L. Wei & J.H. Wang	<b>MW344166</b>				
<i>R. macrospora</i> sp. nov.	<b>HMAS-L0139327</b>	China	X.L. Wei & J.H. Wang	<b>MW344167</b>				
<i>R. macrospora</i> sp. nov.	<b>HMAS-L0141626</b>	China	J.H. Wang & R.D. Liu	<b>MW344168</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0130558</b>	China	J.H. Wang & R.D. Liu	<b>MW344169</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0130601</b>	China	J.H. Wang & R.D. Liu	<b>MW344170</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0139159</b>	China	X.L. Wei & J.H. Wang	<b>MW344171</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0139162</b>	China	X.L. Wei & J.H. Wang	<b>MW344172</b>	<b>MW357058</b>	<b>MW375713</b>	<b>MW346600</b>	<b>MW346612</b>
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0139164</b>	China	X.L. Wei & J.H. Wang	<b>MW344173</b>	<b>MW357059</b>	<b>MW375714</b>	<b>MW346601</b>	<b>MW346613</b>
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0139170</b>	China	X.L. Wei & J.H. Wang	<b>MW344174</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0141589</b>	China	X.L. Wei & J.H. Wang	<b>MW344175</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0141590</b>	China	X.L. Wei & J.H. Wang	<b>MW344176</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0141595</b>	China	J.H. Wang & R.D. Liu	<b>MW344177</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0141602</b>	China	J.H. Wang & R.D. Liu	<b>MW344178</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0141613</b>	China	J.H. Wang & R.D. Liu	<b>MW344179</b>				
<i>R. maculatoides</i> sp. nov.	<b>HMAS-L0141616</b>	China	J.H. Wang & R.D. Liu	<b>MW344180</b>				
<i>R. melanobapha</i>	<b>HMAS-L0139173</b>	China	X.L. Wei & J.H. Wang	<b>MW344181</b>				
<i>R. melanobapha</i>	<b>HMAS-L0139275</b>	China	X.L. Wei & J.H. Wang	<b>MW344182</b>				
<i>R. melanobapha</i>	<b>HMAS-L0139328</b>	China	X.L. Wei & J.H. Wang	<b>MW344183</b>				
<i>R. melanobapha</i>	<b>HMAS-L0139331</b>	China	X.L. Wei & J.H. Wang	<b>MW344184</b>	MN720046	MN727016	MN738517	MN738539
<i>R. melanobapha</i>	<b>HMAS-L0139623</b>	China	S.H. Jiang	<b>MW344185</b>	MN720047	MN727017	MN738518	MN738540
<i>R. melanobapha</i>	<b>HMAS-L0141593</b>	China	X.L. Wei & J.H. Wang	<b>MW344186</b>				
<i>R. subtilissima</i>	<b>ISE-32602</b>	Brazil	R. Lücking et al.	<b>MW344187</b>	—	MN727018	MN738519	—
<i>Serisiauxiella filifera</i>	<b>HMAS-L0130625</b>			MN720009				
<i>Ser. filifera</i>	<b>HMAS-L0130627</b>			MN720010				

<i>Ser. filifera</i>	HMAS-L0130629		MN720011	MN720048	MN727019	MN738520	MN738541
<i>Ser. filifera</i>	HMAS-L0139219		MN720019				
<i>Ser. filifera</i>	HMAS-L0139223		MN720020				
<i>Ser. filifera</i>	HMAS-L0139234		MN720022				
<i>Ser. filifera</i>	HMAS-L0139270		MN720012				
<i>Ser. filifera</i>	HMAS-L0139272		MN720013				
<i>Ser. filifera</i>	HMAS-L0139288		MN720021				
<i>Ser. filifera</i>	HMAS-L0139298		MN720015				
<i>Ser. filifera</i>	HMAS-L0141639		MN720014				
<i>Ser. filifera</i>	HMAS-L0141641		MN720016				
<i>Ser. filifera</i>	HMAS-L0141644		MN720017				
<i>Ser. filifera</i>	HMAS-L0141648		MN720018	MN720049	MN727020	MN738521	MN738542
<i>Ser. filifera</i>	HMAS-L0141656		MN720023	MN720050	MN727021	MN738522	MN738543
<i>Ser. filifera</i>	HMAS-L0141660		MN720024				
<i>Ser. flagellata</i>	HMAS-L0130554		MN720025				
<i>Ser. flagellata</i>	HMAS-L0139216		MN720027				
<i>Ser. flagellata</i>	HMAS-L0141609		MN720026				
<i>Ser. sinensis</i>	HMAS-L0141605		MN720033				
<i>Ser. sinensis</i>	HMAS-L0141611		MN720031	MN720053	MN727022	MN738525	MN738546
<i>Ser. sinensis</i>	HMAS-L0141612		MN720032				
<i>Ser. sinensis</i>	HMAS-L0141614		MN720030				
<i>Strigula acuticonidiarum</i>	HMAS-L0138045		KY100290	MK206236	MK206217	MK273083	MK273111
<i>S. acuticonidiarum</i>	HMAS-L0138046		KY100295				
<i>S. acuticonidiarum</i>	HMAS-L0138047		KY100296				
<i>S. acuticonidiarum</i>	HMAS-L0138048		KY100291				
<i>S. acuticonidiarum</i>	HMAS-L0138049		KY100292				
<i>S. acuticonidiarum</i>	HMAS-L0138050		KY100293				
<i>S. acuticonidiarum</i>	HMAS-L0138051		KY100294				
<i>S. albomaculata</i>	<b>HMAS-L0139202</b>	Cambodia	X.L. Wei	<b>MW344188</b>			
<i>S. antillarum</i>	<b>B600205079</b>	Cuba	R. Lücking et al.	<b>MW344189</b>			
<i>S. antillarum</i>	<b>B600205080</b>	Cuba	R. Lücking et al.	<b>MW344190</b>			
<i>S. antillarum</i>	<b>B600205082</b>	Cuba	R. Lücking et al.	<b>MW344191</b>			
<i>S. antillarum</i>	<b>B600205084</b>	Cuba	R. Lücking et al.	<b>MW344192</b>	MN720054	—	MN738526
<i>S. cf. atrocarpoides</i>	<b>HMAS-L0139342</b>	China	X.L. Wei & S.H. Jiang	<b>MW344194</b>	MN720055	MN727023	MN738527
<i>S. cf. atrocarpoides</i>	<b>HMAS-L0139346</b>	China	X.L. Wei & S.H. Jiang	<b>MW344195</b>			MN738548
<i>S. cf. atrocarpoides</i>	<b>HMAS-L0139180</b>	China	X.Y. Liu	<b>MW344193</b>			

<i>S. cf. atrocarpoides</i>	<b>HMAS-L0141560</b>	China	X.L. Wei & S.H. Jiang	<b>MW344196</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0130609</b>	China	J.H. Wang & R.D. Liu	<b>MK206313</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0130611</b>	China	J.H. Wang & R.D. Liu	<b>MK206314</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0130615</b>	China	J.H. Wang & R.D. Liu	<b>MK206315</b>	MK206251	MK206230	MK273098	MK273126
<i>S. cf. macaronesica</i>	<b>HMAS-L0139168</b>	China	X.L. Wei & J.H. Wang	<b>MK206317</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0139206</b>	China	J.C. Wei	<b>MK206318</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0139208</b>	China	J.C. Wei	<b>MK206319</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0139258</b>	China	S.H. Jiang	<b>MK206321</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0139260</b>	China	S.H. Jiang	<b>MK206322</b>	MK206252	MK206231	MK273099	MK273127
<i>S. cf. macaronesica</i>	<b>HMAS-L0139261</b>	China	S.H. Jiang	<b>MK206323</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0139262</b>	China	S.H. Jiang	<b>MK206324</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0139330</b>	China	X.L. Wei & J.H. Wang	<b>MW344197</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0141580</b>	China	X.L. Wei & J.H. Wang	<b>MW344198</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L0141581</b>	China	X.L. Wei & J.H. Wang	<b>MW344199</b>				
<i>S. cf. macaronesica</i>	<b>HMAS-L118983</b>	China	J.C. Wei & W. Guo	<b>MK206308</b>				
<i>S. cf. smaragdula</i>	HMAS-L0130621			KY100298				
<i>S. cf. smaragdula</i>	HMAS-L0138067			KY100300				
<i>S. cf. smaragdula</i>	HMAS-L0138068			KY100299				
<i>S. cf. smaragdula</i>	HMAS-L0139166			KY100296	MK206235	MK206216	MK273082	MK273110
<i>S. cf. smaragdula</i>	<b>HMAS-L0141395</b>	China	X.L. Wei & S.H. Jiang	<b>MK206357</b>	MK206234	MK206215	MK273081	MK273109
<i>S. cf. smaragdula</i>	<b>HMAS-L0141396</b>	China	X.L. Wei & J.H. Wang	<b>MK206359</b>	MK206233	MK206214	MK273080	MK273108
<i>S. dispersa</i>	HMAS-L0137212			KX216701	MK206250	—	MK273097	MK273125
<i>S. dispersa</i>	HMAS-L0137213			KX216700				
<i>S. guangdongensis</i> sp. nov.	<b>HMAS-L0139158</b>	China	X.L. Wei & J.H. Wang	<b>MW344200</b>				
<i>S. guangdongensis</i> sp. nov.	<b>HMAS-L0139161</b>	China	X.L. Wei & J.H. Wang	<b>MW344201</b>				
<i>S. guangdongensis</i> sp. nov.	<b>HMAS-L0139169</b>	China	X.L. Wei & J.H. Wang	<b>MW344202</b>	<b>MW357060</b>	<b>MW375715</b>	<b>MW346602</b>	—
<i>S. guangxiensis</i>	HMAS-L0138040			KY100301	MK206256	—	MK273103	MK273131
<i>S. guangxiensis</i>	HMAS-L0138041			KY100304	MK206257	—	MK273104	MK273132
<i>S. guangxiensis</i>	HMAS-L0138042			KY100305				
<i>S. guangxiensis</i>	HMAS-L0138044			KY100302				
<i>S. intermedia</i> sp. nov.	<b>HMAS-L0139176</b>	China	X.Y. Liu	<b>MK206304</b>	<b>MK206254</b>	—	<b>MK273101</b>	<b>MK273129</b>
<i>S. intermedia</i> sp. nov.	<b>HMAS-L0139177</b>	China	X.Y. Liu	<b>MK206305</b>				
<i>S. intermedia</i> sp. nov.	<b>HMAS-L0139178</b>	China	X.Y. Liu	<b>MK206306</b>	<b>MK206255</b>	—	<b>MK273102</b>	<b>MK273130</b>
<i>S. laevis</i> sp. nov.	<b>HMAS-L0139172</b>	China	X.L. Wei & J.H. Wang	<b>MK206348</b>				
<i>S. laevis</i> sp. nov.	<b>HMAS-L0139174</b>	China	X.L. Wei & J.H. Wang	<b>MK206349</b>				
<i>S. laevis</i> sp. nov.	<b>HMAS-L0141592</b>	China	X.L. Wei & J.H. Wang	<b>MW344203</b>	<b>MK206253</b>	<b>MK206232</b>	<b>MK273100</b>	<b>MK273128</b>

<i>S. laevis</i> sp. nov.	<b>HMAS-L0141594</b>	China	X.L. Wei & J.H. Wang	<b>MW344204</b>				
<i>S. macrocarpa</i>	HMAS-L0137662			KY083728				
<i>S. macrocarpa</i>	HMAS-L0137663			KY083729				
<i>S. macrocarpa</i>	HMAS-L0137664			KY083731				
<i>S. macrocarpa</i>	HMAS-L0137666			KY083730				
<i>S. macrocarpa</i>	<b>HMAS-L0139289</b>	China	S.H. Jiang	<b>MK206341</b>	MK206241	MK206222	MK273088	MK273116
<i>S. macrocarpa</i>	<b>HMAS-L0141394</b>	China	S.H. Jiang	<b>MK206326</b>	MK206240	MK206221	MK273087	MK273115
<i>S. microcarpa</i> sp. nov.	<b>HMAS-L0139191</b>	China	X.Y. Liu	<b>MW344205</b>	<b>MW357061</b>	<b>MW375716</b>	<b>MW346603</b>	<b>MW346614</b>
<i>S. microcarpa</i> sp. nov.	<b>HMAS-L0139192</b>	China	X.Y. Liu	<b>MW344206</b>				
<i>S. microcarpa</i> sp. nov.	<b>HMAS-L0139193</b>	China	X.Y. Liu	<b>MW344207</b>				
<i>S. microcarpa</i> sp. nov.	<b>HMAS-L0139196</b>	China	X.Y. Liu	<b>MW344208</b>	<b>MW357062</b>	<b>MW375717</b>	<b>MW346604</b>	<b>MW346615</b>
<i>S. microcarpa</i> sp. nov.	<b>HMAS-L0139199</b>	China	X.Y. Liu	<b>MW344209</b>				
<i>S. microcarpa</i> sp. nov.	<b>HMAS-L0139200</b>	China	X.Y. Liu	<b>MW344210</b>				
<i>S. microcarpa</i> sp. nov.	<b>HMAS-L0139201</b>	China	X.Y. Liu	<b>MW344211</b>				
<i>S. microcarpa</i> sp. nov.	<b>HMAS-L0141585</b>	China	X.Y. Liu	<b>MW344212</b>				
<i>S. microcarpa</i> sp. nov.	<b>HMAS-L0141588</b>	China	X.Y. Liu	<b>MW344213</b>				
<i>S. nitidula</i>	<b>B600205019</b>	Guatemala	R. Lücking et al.	<b>MW344214</b>				
<i>S. nitidula</i>	<b>B600205029</b>	Guatemala	R. Lücking et al.	<b>MW344215</b>				
<i>S. nitidula</i>	<b>B600205077</b>	Cuba	R. Lücking et al.	<b>MW344216</b>				
<i>S. nitidula</i>	<b>HMAS-L0139343</b>	China	X.L. Wei & S.H. Jiang	<b>MW344217</b>				
<i>S. nitidula</i>	<b>HMAS-L0139358</b>	China	X.L. Wei & S.H. Jiang	<b>MW344218</b>	MN788374	MN788375	MN793983	MN793982
<i>S. nitidula</i>	<b>HMAS-L0139361</b>	China	X.L. Wei & S.H. Jiang	<b>MW344219</b>				
<i>S. nitidula</i>	<b>HMAS-L0139367</b>	China	X.L. Wei & S.H. Jiang	<b>MW344220</b>				
<i>S. nitidula</i>	<b>HMAS-L0141586</b>	China	X.Y. Liu	<b>MW344221</b>				
<i>S. nitidula</i>	<b>HMAS-L0141587</b>	China	X.Y. Liu	<b>MW344222</b>				
<i>S. prasina</i>	<b>B600205022</b>	Guatemala	R. Lücking et al.	<b>MW344223</b>				
<i>S. prasina</i>	<b>B600205024</b>	Guatemala	R. Lücking et al.	<b>MW344224</b>				
<i>S. prasina</i>	<b>B600205026</b>	Guatemala	R. Lücking et al.	<b>MW344225</b>	—	MN727024	MN738528	—
<i>S. prasina</i>	<b>B600205065</b>	Panama	R. Lücking et al.	<b>MW344226</b>				
<i>S. pseudoantillarum</i> sp. nov.	<b>HMAS-L0130571</b>			KY100288	<b>MW357063</b>	<b>MW375718</b>	<b>MW346605</b>	<b>MW346616</b>
<i>S. pseudoantillarum</i> sp. nov.	<b>HMAS-L0130573</b>	China	J.H. Wang & R.D. Liu	KY100289	<b>MK206237</b>	<b>MK206218</b>	<b>MK273084</b>	<b>MK273112</b>
<i>S. pseudoantillarum</i> sp. nov.	HMAS-L0137208			KX216697				
<i>S. pseudoantillarum</i> sp. nov.	HMAS-L0137209			KX216696				
<i>S. pseudoantillarum</i> sp. nov.	HMAS-L0137211			KX216702				
<i>S. pseudoantillarum</i> sp. nov.	<b>HMAS-L0139347</b>	China	X.L. Wei & S.H. Jiang		<b>MK206239</b>	<b>MK206220</b>	<b>MK273086</b>	<b>MK273114</b>
<i>S. pseudoantillarum</i> sp. nov.	<b>HMAS-L0139616</b>	Thailand	W.C. Wang		<b>MW357064</b>	<b>MW375719</b>	<b>MW346606</b>	<b>MW346617</b>

<i>S. pseudoantillarum</i> sp. nov.	<b>HMAS-L0139618</b>	Thailand	W.C. Wang		<b>MW357065</b>	<b>MW375720</b>	<b>MW346607</b>	<b>MW346618</b>
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130553</b>	China	J.H. Wang & R.D. Liu	<b>MW344227</b>	<b>MW357066</b>	<b>MW375721</b>	<b>MW346608</b>	<b>MW346619</b>
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130560</b>	China	J.H. Wang & R.D. Liu	<b>MW344228</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130570</b>	China	J.H. Wang & R.D. Liu	<b>MW344229</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130578</b>	China	J.H. Wang & R.D. Liu	<b>MW344230</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130591</b>	China	J.H. Wang & R.D. Liu	<b>MW344231</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130595</b>	China	J.H. Wang & R.D. Liu	<b>MW344232</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130597</b>	China	J.H. Wang & R.D. Liu	<b>MW344233</b>	<b>MW357067</b>	<b>MW375722</b>	<b>MW346609</b>	<b>MW346620</b>
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130599</b>	China	J.H. Wang & R.D. Liu	<b>MW344234</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130602</b>	China	J.H. Wang & R.D. Liu	<b>MW344235</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130603</b>	China	J.H. Wang & R.D. Liu	<b>MW344236</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130605</b>	China	J.H. Wang & R.D. Liu	<b>MW344237</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130607</b>	China	J.H. Wang & R.D. Liu	<b>MW344238</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0130612</b>	China	J.H. Wang & R.D. Liu	<b>MW344239</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0139217</b>	China	X.Y. Liu	<b>MW344240</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0139292</b>	China	S.H. Jiang	<b>MW344241</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0139329</b>	China	X.L. Wei & J.H. Wang	<b>MW344242</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0139633</b>	China	S.H. Jiang	<b>MW344243</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141582</b>	China	X.L. Wei & J.H. Wang	<b>MW344244</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141596</b>	China	J.H. Wang & R.D. Liu	<b>MW344245</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141598</b>	China	J.H. Wang & R.D. Liu	<b>MW344246</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141603</b>	China	J.H. Wang & R.D. Liu	<b>MW344247</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141604</b>	China	J.H. Wang & R.D. Liu	<b>MW344248</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141606</b>	China	J.H. Wang & R.D. Liu	<b>MW344249</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141607</b>	China	J.H. Wang & R.D. Liu	<b>MW344250</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141608</b>	China	J.H. Wang & R.D. Liu	<b>MW344251</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141615</b>	China	J.H. Wang & R.D. Liu	<b>MW344252</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141619</b>	China	J.H. Wang & R.D. Liu	<b>MW344253</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141620</b>	China	J.H. Wang & R.D. Liu	<b>MW344254</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141623</b>	China	J.H. Wang & R.D. Liu	<b>MW344255</b>				
<i>S. pseudosubtilissima</i> sp. nov.	<b>HMAS-L0141627</b>	China	J.H. Wang & R.D. Liu	<b>MW344256</b>				
<i>S. pycnoradians</i> sp. nov.	<b>HMAS-L0139611</b>	Thailand	W.C. Wang	<b>MW344257</b>				
<i>S. pycnoradians</i> sp. nov.	<b>HMAS-L0139615</b>	Thailand	W.C. Wang	<b>MW344258</b>	<b>MW357068</b>	<b>MW375723</b>	<b>MW346610</b>	<b>MW346621</b>
<i>S. pycnoradians</i> sp. nov.	<b>HMAS-L0139617</b>	Thailand	W.C. Wang	<b>MW344259</b>				
<i>S. pycnoradians</i> sp. nov.	<b>HMAS-L0141583</b>	Thailand	W.C. Wang	<b>MW344260</b>				
<i>S. sinoaustralis</i>	<b>HMAS-L0137203</b>			KX216699				

<i>S. sinoaustralis</i>	HMAS-L0137204			KX216698	MK206249	—	MK273096	MK273124
<i>S. sinoconcreta</i> sp. nov.	<b>HMAS-L0139630</b>	China	S.H. Jiang	<b>MW344261</b>				
<i>S. sinoconcreta</i> sp. nov.	<b>HMAS-L0139631</b>	China	S.H. Jiang	<b>MW344262</b>	<b>MW357069</b>	—	—	<b>MW346622</b>
<i>S. subtilissimoides</i> sp. nov.	<b>HMAS-L0130556</b>	China	J.H. Wang & R.D. Liu	<b>MK206350</b>				
<i>S. subtilissimoides</i> sp. nov.	<b>HMAS-L0139253</b>	China	S.H. Jiang	<b>MK206352</b>	<b>MK206248</b>	<b>MK206229</b>	<b>MK273095</b>	<b>MK273123</b>
<i>S. subtilissimoides</i> sp. nov.	<b>HMAS-L0139254</b>	China	S.H. Jiang	<b>MK206353</b>				
<i>S. subtilissimoides</i> sp. nov.	<b>HMAS-L0139255</b>	China	S.H. Jiang	<b>MK206354</b>	<b>MW357070</b>	<b>MW375724</b>	<b>MW346611</b>	<b>MW346623</b>
<i>S. subtilissimoides</i> sp. nov.	<b>HMAS-L0139256</b>	China	S.H. Jiang	<b>MK206355</b>	<b>MK206246</b>	<b>MK206227</b>	<b>MK273093</b>	<b>MK273121</b>
<i>S. subtilissimoides</i> sp. nov.	<b>HMAS-L0139293</b>	China	S.H. Jiang	<b>MK206356</b>				
<i>S. subtilissimoides</i> sp. nov.	<b>HMAS-L0141389</b>	China	J.H. Wang & R.D. Liu	<b>MK206351</b>				
<i>S. univelbiserialis</i>	HMAS-L0137656			KY083734				
<i>S. univelbiserialis</i>	HMAS-L0137657			KY083736	MK206243	MK206224	MK273090	MK273118
<i>S. univelbiserialis</i>	HMAS-L0137658			KY083738	MK206245	MK206226	MK273092	MK273120
<i>S. univelbiserialis</i>	HMAS-L0137659			KY083735	MK206242	MK206223	MK273089	MK273117
<i>S. univelbiserialis</i>	HMAS-L0137660			KY083737	MK206244	MK206225	MK273091	MK273119
<i>Swinscowia jamesii</i>	MPN548				JN887404	JN887388	JN887432	—
<i>Tenuitholiascus porinoides</i>	<b>HMAS-L0139638</b>	China	S.H. Jiang	<b>MK206261</b>	MK206259	MK352441	MK273106	MK273134
<i>Tenuitholiascus porinoides</i>	<b>HMAS-L0139639</b>	China	S.H. Jiang	<b>MK206262</b>	MK206258	MK352442	MK273105	MK273133
<i>Tenuitholiascus porinoides</i>	<b>HMAS-L0139640</b>	China	S.H. Jiang	<b>MK206263</b>	MK206260	MK352443	MK273107	MK273135

<sup>1</sup>The new sequences generated in this study were in bold.