

Table S2: Composition of the strict consensus sequences used in the phylogenetic analyses.

<i>Diversispora aurantia</i>	AJ849468 (type culture); FN547655-65, AM713432, EF581860,62,63,80-83 (W4728/Att1296-0 (ex-type soil trap culture))
<i>Diversispora celata</i>	AM713423-25, AY639225-32, EF581865-68 (W4758/Att1292-2, BEG230 = FACE83); AM713426-28, AY639236-41, EF581873-76 (W4757/Att1291-2, BEG232 = FACE272); DQ350448-53 (W5306-07/Att1500-2 = BEG233 = FACE410); AM713417-22, AM713402-04, AY639233-35, AY639306, EF581869-72 (ex-type single spore culture W4718-19/Att1278-2, BEG231 = FACE234)
<i>Diversispora eburnea</i>	AM713405-16,29-31, EF067886-88, EF581877-79 (AZ420A W4729/Att1290-5, ex-type culture)
<i>Diversispora epigaea</i> (all ex-type culture-lineage, originally from Oregon State University, USA, all in the same culture-lineage as BEG47):	AJ132666 (BEG47 from BEG at INRA Dijon, France); AJ276088 (W3221/Att475-21 from C. Walker, Hampshire, England); AM947665, AY842567-69,73,74, FJ461852, FM876814-20, FN547635,36, (W5165/Att475-45 from P. Bonfante, Torino via C. Walker, UK via B. Blal, Dijon, France via INRA, Dijon, France via Rothamsted Experimental Station, UK); FN547666-81 (W3180/Att475-22); X86687, Y17651, FR686938-42 (HC/F-E01 from P. Bonfante, Torino, Italy via J. Trappe, Corvallis, USA)
<i>Diversispora</i> sp. W2423	AJ301863, AJ276076, Y17644, AJ301860, FR686943-44 (W2423/Att382-16)
<i>Diversispora</i> sp. 'NamAri'	AF185677-81 (in sequence database as <i>Glomus</i> sp. AZ237B; in INVAM culture collection as <i>Glomus intraradices</i> AZ237B); AF185682,90,91, AF185693-95 (in sequence database as <i>Glomus</i> sp. NB101; in INVAM culture collection as <i>Glomus intraradices</i> NB101)
<i>Diversispora</i> sp. W5257	FR686945-52, FR686958 (W5257)
<i>Diversispora spurca</i> (all ex-type cultures)	AJ276077 (W3239/Att246-4); AJ276078, Y17649,50, FR686953 (W2396/Att246-4); FN547637-54, FR686954 (W4119/Att246-18)
<i>Diversispora trimurales</i>	FR686956-57 (W4124/Att1152-1)
<i>Redeckera fulva</i>	AM418543-44 (AC/Pohn99-001)
<i>Redeckera megalocarpa</i> (from type material)	AM418551,52 (CL/Guad05-051)
<i>Redeckera pulvinata</i>	AM418549,50 (CL/Mart05-035)
<i>Otospora bareai</i> (thought to be from the type material)	AM400229, AM905318 (assembly of non-overlapping 5' and 3' regions of SSU rRNA gene)
<i>Acaulospora lacunosa</i> BEG78	FR719957, AJ891110-13, AJ510230
<i>Acaulospora laevis</i> AU211	AJ250847, AJ242499, FJ461802
<i>Acaulospora cavernata</i> BEG33 (given as <i>A. scrobiculata</i> at BEG)	AJ306442, FM876788-91
<i>Acaulospora</i> sp. WUM18 (equivalent to INVAM AU103A)	AJ306441, FM876792,93
<i>Claroideoglomus claroideum</i> BEG14 (= <i>Glomus claroideum</i>)	AJ301851,52, AJ276075, Y17636, AF235007
<i>Rhizophagus irregularis</i> GINCO4695rac-11G2 (AFTOL-ID845) (= <i>Glomus irregulare</i>)	DQ322630, AY997054, DQ273828
<i>Funneliformis mosseae</i> UT101 (AFTOL-ID139) (= <i>Glomus mosseae</i>)	AY635833, AY997053, DQ273793
<i>Gigaspora rosea</i> DAOM194757	X58726, AJ410746,47, FN547571-97
<i>Pacispora scintillans</i> W4545 (vouchD1, sample3)	FM876831,32, AJ619952-55
<i>Racocetra castanea</i> BEG1 (ex-type culture)	AF038590, AJ002874, AJ313169-75, FJ461867, FN423706,07, U31997,98, Y12076
<i>Scutellospora heterogama</i> BEG35	AJ306434, FM876837-39
<i>Scutellospora nodosa</i> BEG4	FM876833-36, AJ306436