

## Intraspecific Variation of the Aquatic Fungus *Articulospora tetracladia*: An Ubiquitous Perspective.

Seena,S., Duarte,S., Pascoal,C. and Cassio,F.

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>gi|383290909|gb|JF895397.1| *Articulospora tetracladia* isolate UMB-042.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

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AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT
TGGCAGGCCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG
GTAGGGATACCCGCTGAACTTAA
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>gi|383290910|gb|JF895398.1| *Articulospora tetracladia* isolate UMB-043.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

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AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT
TGGCAGGCCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG
GTAGGGATACCCGCTGAACTTAA
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>gi|383290911|gb|JF895399.1| *Articulospora tetracladia* isolate UMB-058.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

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AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT
TGGCAGGCCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG
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TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290912|gb|JF895400.1| *Articulospora tetracladia* isolate UMB-  
074.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGCCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290913|gb|JF895401.1| *Articulospora tetracladia* isolate UMB-  
076.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGCCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290914|gb|JF895402.1| *Articulospora tetracladia* isolate UMB-  
325.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGCCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290915|gb|JF895403.1| *Articulospora tetracladia* isolate UMB-  
329.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal

RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290916|gb|JF895404.1| *Articulospora tetracladia* isolate UMB-365.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290917|gb|JF895405.1| *Articulospora tetracladia* isolate UMB-381.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290918|gb|JF895406.1| *Articulospora tetracladia* isolate UMB-427.09 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA

GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290919|gb|JF895407.1| *Articulospora tetracladia* isolate UMB-  
485.10 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290920|gb|JF895408.1| *Articulospora tetracladia* isolate UMB-  
493.10 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290921|gb|JF895409.1| *Articulospora tetracladia* isolate UMB-  
047.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTGGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290922|gb|JF895410.1| *Articulospora tetracladia* isolate UMB-413.09 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTGGTTACTTGCCAGTAACCCGCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290923|gb|JF895411.1| *Articulospora tetracladia* isolate UMB-021.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290924|gb|JF895412.1| *Articulospora tetracladia* isolate UMB-022.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290925|gb|JF895413.1| *Articulospora tetracladia* isolate UMB-072.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT

TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290926|gb|JF895414.1| *Articulospora tetracladia* isolate UMB-  
106.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290927|gb|JF895415.1| *Articulospora tetracladia* isolate UMB-  
237.02 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290928|gb|JF895416.1| *Articulospora tetracladia* isolate UMB-  
321.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT

TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290929|gb|JF895417.1| *Articulospora tetracladia* isolate UMB-  
423.09 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGAGTCTCGGTAGTTACTTGCCAGTAACCCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290930|gb|JF895418.1| *Articulospora tetracladia* isolate UMB-  
078.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTCGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGGGTCTCGGTAGTTACTTGCCAGTAACCCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290931|gb|JF895419.1| *Articulospora tetracladia* isolate UMB-  
327.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTCGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG  
TATTGGGGCCTGCGGTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGGGTCTCGGTAGTTACTTGCCAGTAACCCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290932|gb|JF895420.1| *Articulospora tetracladia* isolate UMB-  
353.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S

ribosomal RNA gene, partial sequence

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AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTCGTTGCTT
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT
TTCTCGCTATAGGGTCTCGGTAGTTACTTGGCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG
GTAGGGATACCCGCTGAACTTAA
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>gi|383290933|gb|JF895421.1| *Articulospora tetracladia* isolate UMB-430.09 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

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AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTCGTTGCTT
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCACGCTTGG
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT
TTCTCGCTATAGGGTCTCGGTAGTTACTTGGCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG
GTAGGGATACCCGCTGAACTTAA
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>gi|383290934|gb|JF895422.1| *Articulospora tetracladia* isolate UMB-004.00 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

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AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCCCGCTTGG
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCGATTGAGCTCTGAGCGTAGTAATTT
TTCTCGCTATAGGGTCTCGGTGCTTACTTGGCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG
GTAGGGATACCCGCTGAACTTAA
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>gi|383290935|gb|JF895423.1| *Articulospora tetracladia* isolate UMB-040.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

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AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA
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TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCCCGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCGATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGGGTCTCGGTCGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290936|gb|JF895424.1| *Articulospora tetracladia* isolate UMB-  
060.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTTATACCTTAGTTGCT  
TTGGCAGGCCGTGAAACACCACGGGCTTCGGCTTGTGTGTCGTGCCTGCCAGAGGAAACAAACTCTGTTTT  
TAGTGATGTCTGAGTACTATATAATAGTTAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGA  
AGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCAC  
ATTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCCCGCTTG  
GTATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCGATTGAGCTCTGAGCGTAGTAATT  
TTTCTCGCTATAGGGTCTCGGTCGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCA  
GGTAGGGATACCCGCTGAACTTAA

>gi|383290937|gb|JF895425.1| *Articulospora tetracladia* isolate UMB-  
061.01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGAAACACCACGGGCTTCGGCTTGTGTGTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCCCGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCGATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGGGTCTCGGTCGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290938|gb|JF895426.1| *Articulospora tetracladia* isolate UMB-  
326.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGAAACACCACGGGCTTCGGCTTGTGTGTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCCCGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCGATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGGGTCTCGGTCGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA

>gi|383290939|gb|JF895427.1| *Articulospora tetracladia* isolate UMB-380.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTTATACCTTAGTTGCT  
TTGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTCTGTCCTGCCAGAGGAAACAAACTCTGTTTT  
TAGTGATGTCTGAGTACTATATAATAGTTAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGA  
AGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCAC  
ATTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCCCCTTG  
GTATTGGGGCCTGCGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCGATTGAGCTCTGAGCGTAGTAATT  
TTTCTCGCTATAGGGTCTCGGTTCGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCA  
GGTAGGGATACCCGCTGAACTTAA

>gi|383290940|gb|JF895428.1| *Articulospora tetracladia* isolate UMB-383.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTTATACCTTAGTTGCT  
TTGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTCTGTCCTGCCAGAGGAAACAAACTCTGTTTT  
TAGTGATGTCTGAGTACTATATAATAGTTAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGA  
AGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCAC  
ATTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCCCCTTG  
GTATTGGGGCCTGCGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCGATTGAGCTCTGAGCGTAGTAATT  
TTTCTCGCTATAGGGTCTCGGTTCGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCA  
GGTAGGGATACCCGCTGAACTTAA

>gi|383290941|gb|JF895429.1| *Articulospora tetracladia* isolate UMB-487.10 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTTATACCTTAGTTGCT  
TTGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTCTGTCCTGCCAGAGGAAACAAACTCTGTTTT  
TAGTGATGTCTGAGTACTATATAATAGTTAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGA  
AGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCAC  
ATTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCCCCTTG  
GTATTGGGGCCTGCGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCGATTGAGCTCTGAGCGTAGTAATT  
TTTCTCGCTATAGGGTCTCGGTTCGTTACTTGCCAGTAACCCCAATTTTTATCAGGTTGACCTCGGATCA  
GGTAGGGATACCCGCTGAACTTAA

>gi|383290942|gb|JF895430.1| *Articulospora tetracladia* isolate UMB-008.00 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT

TGGCAGGCCGTGGAAACACCACGGGCTTTGGCTTGTGCGTGCCTGCCAGAGGAAACAAACTCTGTTTTTA  
GTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAG  
AACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACAT  
TGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTTACGCTTGGT  
ATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCAACTGAGCTCTGAGCGTAGTAATTTT  
TCTCGCTATAGGGTCTCGGTTGTGACTTGCCAGCAACCCCAATTTTTTATCAGGTTGACCTCGGATCAGG  
TAGGGATACCCGCTGAACTTAA

>gi|383290943|gb|JF895431.1| *Articulospora tetracladia* isolate UMB-  
309.06 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTTGGCTTGTGCGTGCCTGCCAGAGGAAACAAACTCTGTTTTTA  
GTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAG  
AACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACAT  
TGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTTACGCTTGGT  
ATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCAACTGAGCTCTGAGCGTAGTAATTTT  
TCTCGCTATAGGGTCTCGGTTGTGACTTGCCAGCAACCCCAATTTTTTATCAGGTTGACCTCGGATCAGG  
TAGGGATACCCGCTGAACTTAA

>gi|383290944|gb|JF895432.1| *Articulospora tetracladia* isolate UMB-  
338.07 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTTGGCTTGTGCGTGCCTGCCAGAGGAAACAAACTCTGTTTTTA  
GTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAG  
AACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACAT  
TGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTTACGCTTGGT  
ATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCAACTGAGCTCTGAGCGTAGTAATTTT  
TCTCGCTATAGGGTCTCGGTTGTTACTTGCCAGTAACCCCAATTTTTTATCAGGTTGACCTCGGATCAGG  
TAGGGATACCCGCTGAACTTAA

>gi|383290945|gb|JF895433.1| *Articulospora tetracladia* isolate UMB-  
484.10 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTTGGCTTGTGCGTGCCTGCCAGAGGAAACAAACTCTGTTTTTA  
GTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAG  
AACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACAT  
TGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTTACGCTTGGT  
ATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCAACTGAGCTCTGAGCGTAGTAATTTT

TCTCGCTATAGGGTCTCGGTTGTGACTTGCCAGCAACCCCCAATTTTTATCAGGTTGACCTCGGATCAGG  
TAGGGATACCCGCTGAACTTAA

>gi|383290946|gb|JF895434.1| *Articulospora tetracladia* isolate UMB-  
489.10 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTTGGCTTGTGCGTGCCTGCCAGAGGAAACAAACTCTGTTTTTA  
GTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAG  
AACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACAT  
TGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTTACGCTTGGT  
ATTGGGGCCTGCGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCAACTGAGCTCTGAGCGTAGTAATTTT  
TCTCGCTATAGGGTCTCGGTTGTGACTTGCCAGCAACCCCCAATTTTTATCAGGTTGACCTCGGATCAGG  
TAGGGATACCCGCTGAACTTAA

>gi|383290947|gb|JF895435.1| *Articulospora tetracladia* isolate UMB-  
492.10 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTTGGCTTGTGCGTGCCTGCCAGAGGAAACAAACTCTGTTTTTA  
GTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAG  
AACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACAT  
TGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTTACGCTTGGT  
ATTGGGGCCTGCGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCAACTGAGCTCTGAGCGTAGTAATTTT  
TCTCGCTATAGGGTCTCGGTTGTGACTTGCCAGCAACCCCCAATTTTTATCAGGTTGACCTCGGATCAGG  
TAGGGATACCCGCTGAACTTAA

>gi|383290948|gb|JF895436.1| *Articulospora tetracladia* isolate UMB-  
497.10 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S  
ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTAGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTTGGCTTGTGCGTGCCTGCCAGAGGAAACAAACTCTGTTTTTA  
GTGATGTCTGAGTACTATATAATAGTTAAAACCTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAG  
AACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACAT  
TGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTTACGCTTGGT  
ATTGGGGCCTGCGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCAACTGAGCTCTGAGCGTAGTAATTTT  
TCTCGCTATAGGGTCTCGGTTGTGACTTGCCAGCAACCCCCAATTTTTATCAGGTTGACCTCGGATCAGG  
TAGGGATACCCGCTGAACTTAA

>gi|383290949|gb|JF895437.1| *Articulospora tetracladia* isolate UMB-  
418.09 internal transcribed spacer 1, partial sequence; 5.8S ribosomal  
RNA gene and internal transcribed spacer 2, complete sequence; and 28S

ribosomal RNA gene, partial sequence

AAGGATCATTACAGAGTTCATGCCCTCACGGGTAGATCTCCCACCCTTGAATATTATACCTTCGTTGCTT  
TGGCAGGCCGTGGAAACACCACGGGCTTCGGCTTGTGTTCGTGCCTGCCAGAGGAAACAAACTCTGTTTTT  
AGTGATGTCTGAGTACTATATAATAGTTAAAACCTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAA  
GAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACA  
TTGCGCCCTGTGGTATTCCGCAGGGCATGCCTGTTTCGAGCGTCATTTCAACCCATCAAGCTCCCGCTTGG  
TATTGGGGCCTGCGGTTTTCGCAGCCTCTAAACTCAGTGGCGGTGCTATTGAGCTCTGAGCGTAGTAATTT  
TTCTCGCTATAGGGTCTCGGTAGTGACTTGCCAGCAACCCCCCATTTTTATCAGGTTGACCTCGGATCAG  
GTAGGGATACCCGCTGAACTTAA