

| Sample group | Sample code | LCA | Determination | Top hits | Accession | Coverage range | Identity range |
|--------------|-------------|-------|----------------------|---|--|---|--|
| I | 1A | Usnea | Usnea aurantiacoatra | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147249.1, DQ534488.2, EF179799.1, ... EF179796.1, KJ607898.1, HQ650616.1, ... | 94% - 100% 90% - 100% | 99.17% - 99.88% 98.72% - 99.87% |
| I | 6A | Usnea | Usnea aurantiacoatra | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200277.1, KJ607898.1, HQ650616.1, ... KX147245.1, DQ534488.2, EF179799.1, ... | 91% - 100% 91% - 100% | 99.52% - 100% 99.52% - 100% |
| I | 13D | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200279.1, KJ607898.1, HQ650616.1, ... KX147250.1, DQ534488.2, MG200305.1, ... | 80% - 100% 80% - 100% | 99.27% - 100% 99.03% - 100% |
| I | 14B | Usnea | Usnea aurantiacoatra | Usnea antarctica (22) Usnea aurantiacoatra (40) | KJ607898.1, HQ650616.1, EF179795.1 ... KX147249.1, DQ534488.2, EF179798.1, ... | 80% - 100% 80% - 100% | 99.40% - 99.88% 99.25% - 100% |
| I | 85A | Usnea | Usnea aurantiacoatra | Usnea antarctica (22) Usnea aurantiacoatra (40) | KJ607899.1, HQ650616.1, MG200282.1, ... KX147238.1, MG200297.1, DQ534488.2, ... | 90% - 100% 90% - 100% | 98.70% - 99.86% 98.70% - 99.86% |
| I | 3B | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147249.1, DQ534488.2, EF179799.1, ... KJ607898.1, EF179796.1, HQ650616.1, ... | 97% - 100% 90% - 100% | 99.30% - 100% 98.95% - 99.88% |
| I | 9C | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147250.1, DQ534488.2, EF179797.1, ... HQ650616.1, EF179795.1, KJ607898.1, ... | 96% - 100% 89% - 100% | 99.08% - 99.88% 99.08% - 99.64% |
| I | 22A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200276.1, KJ607898.1, HQ650616.1, ... KX147250.1, DQ534488.2, EF179798.1, ... | 90% - 100% 90% - 100% | 99.30% - 100% 99.03% - 99.72% |
| I | 41A | Usnea | Usnea antarctica | Usnea aurantiacoatra (40) Usnea antarctica (22) | KX147245.1, DQ534488.2, EF179798.1, ... MG200277.1, KJ607898.1, HQ650616.1, ... | 90% - 100% 90% - 100% | 99.15% - 99.86% 99.15% - 99.84% |
| I | 71A1 | Usnea | Usnea aurantiacoatra | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147245.1, DQ534488.2, EF179798.1, ... KJ607898.1, HQ650616.1, EF179795.1, ... | 99% - 100% 92% - 100% | 99.05% - 99.76% 99.16% - 99.64% |
| I | 4A | Usnea | Usnea aurantiacoatra | Neuropogon antarcticus (3) Usnea antarctica (16) Usnea aurantiacoatra (101) Usnea acromelana (7) Usnea sp. (5) Usnea trachycarpa (12) Usnea ushuaiensis (1) Usnea subantarctica (8) Usnea sphacelata (10) Usnea aff. Perpusilla (2) Usnea perpusilla (2) Usnea lambii (1) Neuropogon trachycarpus (1) Neuropogon sphacelatus (1) uncultured Usnea (5) Usnea aff. Igniaria (1) Usnea aff. Fragilescens (1) | AJ748100.1, AJ748099.1, AJ748101.1 AB103541.1, DQ235517.1, KJ607898.1, ... KX147251.1, DQ534488.2, KR053347.1, ... JQ314768.1, DQ235515.1, JQ314821.1, ... EF492171.1, JX144648.1, MK010860.1, ... JQ314702.1, EF116568.1, DQ235497.1, ... EF492146.1 DQ767961.1, EF179806.1, JF283509.1, ... DQ235495.1, EF179802.1, AB103542.1, ... DQ235512.1, DQ235510.1 DQ235490.1, DQ235488.1 EF179800.1 AJ748103.1 AJ748102.1 KM369309.1, KM369407.1, KM369308.1, ... DQ219307.1 MW241068.1 | 100% 88% - 100% 87% - 100% 87% - 95% 87% - 100% 87% - 94% 87% 90% - 100% 92% - 96% 90% 90% 89% 100% 100% 93% - 94% 100% 94% | 98.65% - 100% 98.26% - 100% 96.11% - 100% 98.38% - 98.89% 95% - 98.23% 97.23% - 98.01% 97.79% 97.05% - 97.50% 96.25% - 97.02% 96.81% - 97.01% 96.80% - 97.01% 96.96% 96.54% 96.53% 95.68% - 95.88% 95.37% 95.31% |
| I | 24A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200277.1, KJ607898.1, HQ650616.1, ... KX147245.1, DQ534488.2, EF179798.1, ... | 95% - 100% 95% - 100% | 99.54% - 100% 99.39% - 100% |
| I | 15A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200277.1, KJ607898.1, HQ650616.1, ... KX147245.1, MG200305.1, DQ534488.2, ... | 100% 99% - 100% | 99.52% - 100% 99.52% - 100% |
| I | 35A | Usnea | Usnea aurantiacoatra | Usnea antarctica (22) Usnea aurantiacoatra (40) | KJ607898.1, EF179796.1, MG200277.1, ... KX147253.1, DQ534488.2, EF179798.1, ... | 96% - 100% 95% - 100% | 99.39% - 100% 99.39% - 100% |
| I | 17A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | KJ607898.1, MG200277.1, EF179796.1, ... MG200296.1, KX147253.1, DQ534488.2, ... | 100% 100% | 99.36% - 100% 99.36% - 100% |
| I | 36A | Usnea | Usnea aurantiacoatra | Usnea antarctica (28) Usnea aurantiacoatra (103) Neuropogon antarcticus (3) Usnea acromelana (3) Usnea sp. (4) Usnea ushuaiensis (6) Usnea trachycarpa (6) Usnea perpusilla (6) Usnea lambii (13) Usnea ciliata (1) Usnea aff. Perpusilla (1) Usnea subantarctica (4) Usnea sphacelata (3) | MG200281.1, DQ235517.1, AB103541.1, ... KX147245.1, MG200305.1, JF283507.1, ... AJ748100.1, AJ748099.1, AJ748101.1 DQ235515.1, DQ235516.1, DQ235514.1 EF492171.1, EF492172.1, EF492174.1, ... EF492146.1, EF492168.1, EF492212.1, ... DQ235497.1, DQ235496.1, EF179804.1, ... EF492147.1, EF492161.1, DQ235490.1, ... EF492189.1, EF492152.1, EF492199.1, ... JF283511.1 DQ235512.1 JF283509.1, EF179806.1, DQ235506.1, ... DQ235495.1, EF179803.1, EF179802.1 | 80% - 99% 80% - 99% 80% 81% 84% 84% 81% - 99% 81% - 84% 84% 85% 81% 81% - 85% 81% - 99% | 98.99% - 100% 99% - 99.83% 98.56% - 99.79% 98.57% 97.63% - 98.22% 96.64% - 97.83% 95.37% - 97.75% 96.84% - 97.63% 96.44% - 97.43% 95.35% 97.33% 97.13% - 97.28% 95.21% - 97.14% |
| I | 25A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200276.1, KJ607898.1, HQ650616.1, ... KX147250.1, DQ534488.2, EF179798.1, ... | 90% - 100% 90% - 100% | 99.27% - 100% 98.99% - 99.71% |
| I | 37A | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147250.1, DQ534488.2, EF179799.1, ... HQ650616.1, EF179795.1, KJ607898.1, ... | 96% - 100% 89% - 100% | 99.08% - 99.88% 99.08% - 99.64% |
| I | 49A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200277.1, KJ607898.1, HQ650616.1, ... KX147245.1, DQ534488.2, EF179798.1, ... | 95% - 100% 95% - 100% | 99.54% - 100% 99.39% - 100% |
| I | R12A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200277.1, KJ607898.1, HQ650616.1, ... KX147245.1, DQ534488.2, EF179798.1, ... | 90% - 100% 90% - 100% | 99.31% - 100% 99.31% - 100% |
| I | 26B | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200280.1, EF179795.1, KJ607898.1, ... KX147250.1, DQ534488.2, EF179798.1, ... | 90% - 100% 90% - 100% | 99.17% - 99.85% 98.89% - 99.58% |
| I | 38A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200281.1, KJ607898.1, HQ650616.1, ... KX147245.1, DQ534488.2, EF179798.1, ... | 90% - 100% 90% - 100% | 99.01% - 100% 99.01% - 99.72% |
| I | 105A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200277.1, KJ607898.1, HQ650616.1, ... KX147245.1, DQ534488.2, EF179798.1, ... | 90% - 100% 90% - 100% | 99.29% - 100% 99.29% - 100% |
| I | 7A1 | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200276.1, HQ650616.1, EF179795.1, ... KX147245.1, DQ534488.2, MG200305.1, ... | 81% - 100% 81% - 100% | 99.15% - 100% 99.03% - 99.76% |
| I | 29A | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147245.1, DQ534488.2, EF179799.1, ... HQ650616.1, EF179795.1, KJ607898.1, ... | 94% - 100% 88% - 100% | 99.20% - 99.89% 98.75% - 99.76% |
| I | 43A | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147245.1, DQ534488.2, EF179799.1, ... HQ650616.1, EF179795.1, KJ607898.1, ... | 95% - 100% 92% - 100% | 99.29% - 100% 98.93% - 99.88% |
| I | 40A | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147245.1, DQ534488.2, EF179799.1, ... KJ607898.1, HQ650616.1, EF179795.1, ... | 100% 92% - 100% | 99.16% - 99.88% 99.28% - 99.76% |
| I | 48A | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | MG200287.1, KJ607898.1, HQ650616.1, ... KX147245.1, DQ534488.2, MG200305.1, ... | 84% - 100% 84% - 100% | 99.36% - 100% 99.25% - 99.87% |
| I | 20A | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147250.1, DQ534488.2, EF179797.1, ... HQ650616.1, EF179795.1, KJ607898.1, ... | 98% - 100% 91% - 100% | 98.94% - 99.76% 99.06% - 99.53% |
| I | 28A | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147249.1, DQ534488.2, EF179799.1, ... KJ607898.1, EF179796.1, HQ650616.1, ... | 97% - 100% 91% - 100% | 99.17% - 99.88% 98.70% - 99.76% |
| I | 16B | Usnea | Usnea aurantiacoatra | Usnea aurantiacoatra (40) Usnea antarctica (22) | KX147243.1, MG200293.1, DQ534488.2, ... KJ607898.1, EF179796.1, MG200277.1, ... | 80% - 100% 80% - 100% | 99.10% - 99.88% 99.03% - 99.76% |
| I | 31A | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147249.1, DQ534488.2, EF179799.1, ... KJ607898.1, EF179796.1, HQ650616.1, ... | 97% - 100% 91% - 100% | 99.06% - 99.76% 98.70% - 99.65% |
| I | 18C | Usnea | Usnea aurantiacoatra | Usnea aurantiacoatra (40) Usnea antarctica (22) | KX147243.1, MG200293.1, DQ534488.2, ... KJ607898.1, EF179796.1, MG200277.1, ... | 89% - 100% 89% - 100% | 99.25% - 100% 99.19% - 99.87% |
| I | 32A | Usnea | Usnea antarctica | Usnea aurantiacoatra (40) Usnea antarctica (22) | MG200296.1, KX147249.1, DQ534488.2, ... MG200277.1, KJ607898.1, EF179796.1, ... | 82% - 99% 82% - 99% | 98.63% - 99.70% 98.38% - 99.55% |
| I | 19A | Usnea | Usnea aurantiacoatra | Usnea antarctica (8) Usnea aurantiacoatra (21) | EF179795.1, HQ650616.1, KJ607898.1, ... KX147245.1, DQ534488.2, EF179799.1, ... | 90% - 100% 97% - 100% | 98.95% - 99.76% 98.96% - 99.65% |
| I | 52A4 | Usnea | Usnea antarctica | Usnea antarctica (22) Usnea aurantiacoatra (40) | KJ607898.1, EF179796.1, MG200277.1, ... KX147253.1, DQ534488.2, MG200296.1, ... | 91% - 100% 91% - 100% | 99.31% - 100% 99.25% - 100% |

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|-----|----------|-------------|----------------------|---|--|---|--|
| I | 27A | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147250.1, DQ534488.2, EF179799.1, ... HQ650616.1, EF179795.1, KJ607898.1, ... | 94% - 100% 88% - 100% | 98.75% - 99.77% 98.74% - 99.52% |
| I | 45A | Usnea | Usnea antarctica | Usnea aurantiacoatra (21) Usnea antarctica (8) | KX147245.1, DQ534488.2, EF179799.1, ... HQ650616.1, EF179795.1, KJ607898.1, ... | 98% - 100% 91% - 100% | 99.18% - 99.88% 99.06% - 99.76% |
| II | 62A1 | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (11) Ochrolechia tartarea (2) Uncultured fungus (2) | KP314449.1, DQ534474.2, KP314435.1, ... DQ219304.1, OM397073.1 KC965169.1, KC965437.1 | 88% - 100% 88% - 100% 93% - 100% | 96.77% - 100% 96.92% - 99.82% 96.93% - 97.48% |
| II | 61A5 | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (13) Ochrolechia tartarea (2) Uncultured fungus (2) | KP314449.1, DQ534474.2, KR017062.1, ... DQ219304.1, OM397073.1 KC965169.1, KC965437.1 | 81% - 100% 87% - 100% 92% - 100% | 95.12% - 100% 97.15% - 99.83% 97.17% - 97.65% |
| II | 77A1 | Ochrolechia | Ochrolechia frigida | Ochrolechia tartarea (2) Ochrolechia frigida (12) Uncultured fungus (2) | DQ219304.1, OM397073.1 KP314449.1, DQ534474.2, HQ650675.1, ... KC965169.1, KC965437.1 | 87% - 100% 80% - 100% 91% - 100% | 96.97% - 99.84% 95.12% - 99.81% 96.87% - 97.48% |
| II | 56A_Sup | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (11) Ochrolechia tartarea (2) Uncultured fungus (2) | KP314449.1, DQ534474.2, HQ650675.1, ... DQ219304.1, OM397073.1 KC965169.1, KC965437.1 | 87% - 100% 86% - 100% 91% - 100% | 96.77% - 100% 96.92% - 99.82% 96.96% - 97.48% |
| II | 44A | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (11) Ochrolechia tartarea (2) Uncultured fungus (2) | KP954318.1, HQ650675.1, DQ534474.2, ... DQ219304.1, OM397073.1 KC965169.1, KC965437.1 | 96% - 100% 95% - 100% 100% | 95.90% - 99.76% 96.31% - 99.30% 97.18% - 97.42% |
| II | 45B_Sup | Ochrolechia | Ochrolechia frigida | Ochrolechia tartarea (2) Ochrolechia frigida (11) Uncultured fungus (2) | DQ219304.1, OM397073.1 DQ534474.2, KP314449.1, HQ650675.1, ... KC965169.1, KC965437.1 | 84% - 100% 84% - 100% 89% - 100% | 96.71% - 100% 96.57% - 100% 96.71% - 97.28% |
| II | 68A3_Sup | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (11) Ochrolechia tartarea (2) Uncultured fungus (2) | KP314449.1, DQ534474.2, HQ650675.1, ... DQ219304.1, OM397073.1 KC965169.1, KC965437.1 | 87% - 100% 86% - 100% 91% - 100% | 96.77% - 100% 96.92% - 99.82% 96.96% - 97.48% |
| II | 29B | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (2) Ochrolechia tartarea (1) Uncultured fungus (2) | DQ534474.2, HQ650675.1 DQ219304.1 KC965169.1, KC965437.1 | 100% 100% 82% - 96% | 98.75% - 99.46% 99.46% 96.67% - 97.39% |
| II | 36C | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (11) Ochrolechia tartarea (2) Uncultured fungus (2) | KP314449.1, DQ534474.2, HQ650675.1, ... DQ219304.1, OM397073.1 KC965169.1, KC965437.1 | 85% - 100% 84% - 100% 90% - 100% | 96.25% - 99.77% 96.42% - 99.59% 96.55% - 97.09% |
| II | 54A3 | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (10) Uncultured fungus (2) Ochrolechia tartarea (2) | KR017062.1, KP314449.1, DQ534474.2, ... KC965169.1, KC965437.1 DQ219304.1, OM397073.1 | 95% - 100% 100% 94% - 100% | 96.63% - 98.02% 96.95% - 97.17% 96.33% - 97.17% |
| II | 60A4 | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (10) Uncultured fungus (2) Ochrolechia tartarea (2) | KP314360.1, DQ534474.2, HQ650675.1, ... KC965169.1, KC965437.1 DQ219304.1, OM397073.1 | 81% - 100% 85% - 98% 80% - 100% | 96.22% - 99.6% 96.36% - 96.94% 96.36% - 99.02% |
| II | 61A1 | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (12) Uncultured fungus (2) Ochrolechia tartarea (2) | KP314449.1, HQ650675.1, DQ534474.2, ... KC965169.1, KC965437.1 DQ219304.1, OM397073.1 | 88% - 98% 98% 96% - 98% | 95.13% - 99.81% 97.44% - 97.62% 97% - 99.63% |
| II | 61A4 | Ochrolechia | Ochrolechia frigida | Ochrolechia frigida (10) Uncultured fungus (2) Ochrolechia tartarea (2) | KP314449.1, DQ534474.2, HQ650675.1, ... KC965169.1, KC965437.1 DQ219304.1, OM397073.1 | 81% - 99% 85% - 98% 80% - 99% | 96.27% - 99.41% 96.23% - 96.99% 96.41% - 98.87% |
| III | 69A1 | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670329.1, MH670328.1, MH670327.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 96% - 100% | 98.62% - 100% 100% 97.06% - 98.82% |
| III | 7B2 | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670325.1, MH670324.1, MH670322.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 97% - 100% | 98.41% - 100% 99.80% 97.22% - 98.61% |
| III | 33D | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670329.1, MH670328.1, MH670327.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 95% - 100% | 98.63% - 100% 100% 97.08% - 98.83% |
| III | 13A | Placopsis | Placopsis antarctica | Placopsis antarctica (43) Placopsis parellina (1) Placopsis contortuplicata (11) Placopsis stellata (1) Placopsis rhodophthalma (2) | MH670331.1, MH670329.1, MH670328.1, ... AY212822.1 DQ534479.2, MH670336.1, KT601492.1, ... AY212827.1 AY212825.1, AY212824.1 | 87% - 100% 100% 99% 99% 99% | 98.26% - 100% 100% 97.51% - 99.01% 95.53% 95.27% |
| III | 75A1 | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670329.1, MH670328.1, MH670327.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 97% - 100% | 98.61% - 100% 100% 97.02% - 98.81% |
| III | 96A | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670331.1, MH670329.1, MH670328.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 99% 96% 88% - 99% | 98.20% - 99.64% 99.44% 96.44% - 98.38% |
| III | 16A | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670329.1, MH670328.1, MH670327.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 98% - 100% | 98.59% - 100% 100.00% 96.99% - 98.80% |
| III | 97A1 | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670331.1, MH670329.1, MH670328.1, ... AY212822.1 DQ534479.2, KC414624.1, MH670336.1, ... | 98% 95% 87% - 98% | 98.19% - 99.64% 99.44% 96.64% - 98.38% |
| III | 10B2 | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670325.1, MH670324.1, MH670322.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 97% - 100% | 98.41% - 100% 99.80% 97.22% - 98.61% |
| III | 6B | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) Placopsis stellata (1) | MH670329.1, MH670328.1, MH670327.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... AY212827.1 | 99% 96% 87% - 99% 95% | 98.74% - 100% 100% 96.84% - 98.92% 95.14% |
| III | 18D | Placopsis | Placopsis antarctica | Placopsis antarctica (43) Placopsis parellina (1) Placopsis contortuplicata (11) Placopsis stellata (1) | MH670331.1, MH670329.1, MH670328.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... AY212827.1 | 84% - 100% 100% 97% - 100% 99% | 98.45% - 100% 100% 97.35% - 98.90% 95.36% |
| III | 78A | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670325.1, MH670324.1, MH670322.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 97% - 100% | 98.41% - 100% 99.80% 97.22% - 98.61% |
| III | 10F2 | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670329.1, MH670328.1, MH670327.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 98% - 100% | 98.59% - 100% 100% 96.99% - 98.80% |
| III | 18E | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670329.1, MH670328.1, MH670327.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 98% - 100% | 98.59% - 100% 100% 96.99% - 98.80% |
| III | 80A2 | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670325.1, MH670324.1, MH670322.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 96% - 100% | 98.24% - 99.80% 99.61% 96.84% - 98.44% |
| III | 6D | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670329.1, MH670328.1, MH670327.1, ... AY212822.1 DQ534479.2, MH670336.1, AY212818.1, ... | 100% 100% 96% - 100% | 99.41% - 100% 100% 97.06% - 98.83% |
| III | 13B | Placopsis | Placopsis antarctica | Placopsis antarctica (42) Placopsis parellina (1) Placopsis contortuplicata (11) | MH670325.1, MH670324.1, MH670322.1, ... AY212822.1 DQ534479.2, KC414624.1, MH670336.1, ... | 100% 96% 88% - 100% | 98.38% - 99.82% 99.63% 97.04% - 98.56% |
| III | 81A4 | Placopsis | Placopsis antarctica | Placopsis antarctica (43) Placopsis parellina (1) | MH670331.1, MH670329.1, MH670328.1, ... AY212822.1 | 81% - 100% 100% | 98.32% - 100% 100% |

| | | | | | | | |
|------|----------|-------------|--------------------------|------------------------------------|---|------------|-----------------|
| III | 11D | Placopsis | Placopsis antarctica | Placopsis contortuplicata (11) | DQ534479.2, MH670336.1, KT601492.1, ... | 100% | 97.60% - 99.28% |
| | | | | Placopsis stellata (1) | AY212827.1 | 100% | 95.92% |
| | | | | Placopsis rhodophthalma (2) | AY212824.1, AY212825.1 | 100% | 95.20% - 95.44% |
| | | | | Placopsis antarctica (42) | MH670329.1, MH670328.1, MH670327.1, ... | 99% | 98.56% - 99.82% |
| III | 19D1 | Placopsis | Placopsis antarctica | Placopsis parellina (1) | AY212822.1 | 95% | 99.81% |
| | | | | Placopsis contortuplicata (11) | DQ534479.2, KC414624.1, MH670336.1, ... | 90% - 99% | 96.84% - 98.74% |
| | | | | Placopsis antarctica (42) | MH670329.1, MH670328.1, MH670327.1, ... | 100% | 98.36% - 100% |
| | | | | Placopsis parellina (1) | AY212822.1 | 97% | 99.63% |
| III | 83A | Placopsis | Placopsis antarctica | Placopsis contortuplicata (11) | DQ534479.2, KC414624.1, MH670336.1, ... | 89% - 100% | 96.84% - 98.55% |
| | | | | Placopsis antarctica (42) | MH670329.1, MH670328.1, MH670327.1, ... | 100% | 98.41% - 99.80% |
| | | | | Placopsis parellina (1) | AY212822.1 | 100% | 99.80% |
| | | | | Placopsis contortuplicata (11) | DQ534479.2, MH670336.1, AY212818.1, ... | 97% - 100% | 96.83% - 98.61% |
| III | 11A1 | Placopsis | Placopsis antarctica | Placopsis antarctica (42) | MH670329.1, MH670328.1, MH670327.1, ... | 100% | 98.61% - 100% |
| | | | | Placopsis parellina (1) | AY212822.1 | 100% | 100% |
| | | | | Placopsis contortuplicata (11) | DQ534479.2, MH670336.1, AY212818.1, ... | 97% - 100% | 97.02% - 98.81% |
| | | | | Placopsis antarctica (42) | MH670329.1, MH670328.1, MH670327.1, ... | 100% | 98.61% - 100% |
| III | 59A | Placopsis | Placopsis antarctica | Placopsis parellina (1) | AY212822.1 | 100% | 100.00% |
| | | | | Placopsis contortuplicata (11) | DQ534479.2, MH670336.1, AY212818.1, ... | 97% - 100% | 97.02% - 98.81% |
| | | | | Placopsis antarctica (42) | MH670331.1, MH670329.1, MH670328.1, ... | 99% - 100% | 98.56% - 100% |
| | | | | Placopsis parellina (1) | AY212822.1 | 96% | 99.81% |
| IV-a | 49C_Bot | Caloplaca | Polycauliona regalis | Placopsis contortuplicata (11) | DQ534479.2, MH670336.1, AY212818.1, ... | 87% - 99% | 96.64% - 98.74% |
| | | | | Caloplaca regalis (1) | EU161240.1 | 100% | 99.62% |
| | | | | Gondwania regalis (3) | KC179103.1, KJ133463.1, KJ133462.1 | 95% - 98% | 99.03% - 99.40% |
| | | | | Gondwania cribosa (1) | KC179102.1 | 95% | 96.40% |
| IV-b | 49E_Mid | Caloplaca | Caloplaca sp. | Gondwania sp. (1) | KC179104.1 | 83% | 97.23% |
| | | | | Caloplaca sublobulata (1) | DQ534455.2 | 100% | 96.25% |
| | | | | Gondwania sejongensis (3) | KJ133467.1, KJ133466.1, KJ133465.1 | 98% | 95.14% - 95.31% |
| | | | | Caloplaca sublobulata (1) | DQ534455.2 | 99% | 95.19% |
| V-a | 77A4 | Umbilicaria | Umbilicaria decussata | Gondwania sejongensis (1) | KJ133467.1 | 86% | 96.01% |
| | | | | Umbilicaria krascheninnikovii (1) | AY603134.1 | 100% | 100% |
| | | | | Umbilicaria decussata (16) | HM161510.1, AY603122.1, KY947809.1, ... | 92% - 100% | 95.81% - 98.79% |
| | | | | Umbilicaria polaris (3) | KY947830.1, KY947747.1, KY947759.1 | 97% | 97.31% - 97.71% |
| V-a | 93A | Umbilicaria | Umbilicaria decussata | Umbilicaria aprina (16) | FN185930.1, JX036075.1, KP314390.1, ... | 95% - 100% | 95% - 96.96% |
| | | | | Umbilicaria virginis (19) | MZ244153.1, KY947767.1, AF297673.1, ... | 94% - 100% | 96.11% - 96.84% |
| | | | | uncultured eukaryote (1) | LC487926.1 | 100% | 96.57% |
| | | | | Umbilicaria proboscidea (12) | MH302526.1, FR799304.1, KY266839.1, ... | 90% - 100% | 95.54% - 96.41% |
| V-a | 62A4_Bot | Umbilicaria | Umbilicaria sp. | Umbilicaria polyrrhiza (5) | KY947838.1, JQ764737.1, MK812352.1, ... | 96% - 100% | 95.09% - 95.77% |
| | | | | Umbilicaria kappenii (3) | AY603130.1, AY603132.1, AY603131.1 | 93% - 99% | 95.14% - 95.67% |
| | | | | Umbilicaria antarctica (4) | AY603124.1, AY603128.1, AJ431605.1, ... | 96% - 99% | 95.03% - 95.61% |
| | | | | Umbilicaria havaasii (4) | KY947742.1, JQ764739.1, KY947858.1, ... | 95% - 100% | 95.1% - 95.57% |
| V-b | 52A3 | Umbilicaria | Umbilicaria sp. | Umbilicaria sp. | MZ244150.1 | 96% | 95.43% |
| | | | | Umbilicaria altaiensis (1) | KY947786.1 | 97% | 95.22% |
| | | | | Umbilicaria pulvinaria (1) | KY947735.1 | 100% | 95.14% |
| | | | | Umbilicaria africana (1) | KY947844.1 | 99% | 95.14% |
| V-b | 52A3 | Umbilicaria | Umbilicaria sp. | Umbilicaria formosana (1) | KY947733.1 | 99% | 95.13% |
| | | | | Umbilicaria maculata (1) | KY947794.1 | 97% | 95.01% |
| | | | | Umbilicaria krascheninnikovii (1) | AY603134.1 | 100% | 99.79% |
| | | | | Umbilicaria decussata (16) | HM161510.1, AY603122.1, KY947809.1, ... | 93% - 100% | 95.59% - 98.57% |
| V-b | 62A4_Bot | Umbilicaria | Umbilicaria sp. | Umbilicaria polaris (3) | KY947830.1, KY947747.1, KY947759.1 | 99% | 97.10% - 97.51% |
| | | | | Umbilicaria aprina (15) | FN185930.1, JX036075.1, KP314390.1, ... | 97% - 100% | 95.04% - 96.70% |
| | | | | Umbilicaria virginis (19) | MZ244158.1, KY947767.1, AF297673.1, ... | 96% - 100% | 95.88% - 96.62% |
| | | | | uncultured eukaryote (1) | LC487926.1 | 100% | 96.30% |
| V-b | 52A3 | Umbilicaria | Umbilicaria sp. | Umbilicaria proboscidea (12) | MH302526.1, FR799304.1, KY266839.1, ... | 91% - 100% | 95.26% - 96.20% |
| | | | | Umbilicaria polyrrhiza (2) | KY947838.1, JQ764737.1 | 97% - 100% | 95.18% - 95.48% |
| | | | | Umbilicaria kappenii (1) | AY603130.1 | 93% | 95.36% |
| | | | | Umbilicaria havaasii (2) | JQ764739.1, KY947742.1 | 96% - 100% | 95.29% - 95.34% |
| V-b | 52A3 | Umbilicaria | Umbilicaria sp. | Umbilicaria antarctica (1) | AY603124.1 | 96% | 95.31% |
| | | | | Umbilicaria sp. (1) | MZ244150.1 | 98% | 95.22% |
| | | | | Umbilicaria hyperborea (1) | KY947744.1 | 98% | 95.17% |
| | | | | Umbilicaria altaiensis (1) | KY947786.1 | 99% | 95.11% |
| V-b | 52A3 | Umbilicaria | Umbilicaria sp. | Umbilicaria aprina (17) | KY947808.1, JQ739981.1, JX036075.1, ... | 95% - 100% | 95.56% - 100% |
| | | | | Umbilicaria africana (3) | KY947844.1, HM161482.1, KY947743.1 | 100% | 95.56% - 99.80% |
| | | | | Umbilicaria krascheninnikovii (2) | JQ739994.1, KY947752.1 | 97% - 98% | 95.12% - 97.11% |
| | | | | Umbilicaria antarctica (35) | AY603124.1, KR053313.1, JQ739980.1, ... | 94% - 100% | 95.16% - 96.59% |
| V-b | 52A3 | Umbilicaria | Umbilicaria sp. | Umbilicaria kappenii (7) | AY603130.1, AY603132.1, AY603131.1, ... | 91% - 100% | 95.28% - 96.47% |
| | | | | Umbilicaria proboscidea (11) | MK811704.1, KY266839.1, FR799304.1, ... | 89% - 100% | 95.21% - 96.39% |
| | | | | Umbilicaria formosana (3) | JQ739988.1, KY947733.1, KY947806.1 | 97% - 100% | 95.33% - 96.07% |
| | | | | Umbilicaria decussata (11) | KY947795.1, KP314408.1, HM161501.1, ... | 91% - 100% | 95.15% - 96.05 |
| V-b | 52A3 | Umbilicaria | Umbilicaria sp. | Umbilicaria rhizinata (1) | KY948011.1 | 100% | 95.98% |
| | | | | Umbilicaria virginis (11) | KY947832.1, KY947767.1, MZ244162.1, ... | 98% - 100% | 95.06% - 95.96% |
| | | | | uncultured eukaryote (1) | LC487926.1 | 100% | 95.96% |
| | | | | Umbilicaria havaasii (2) | KY947742.1, JQ764739.1 | 96% - 97% | 95.01% - 95.68% |
| V-b | 52A3 | Umbilicaria | Umbilicaria sp. | Umbilicaria polaris (2) | KY947759.1, KY947830.1 | 96% - 99% | 95.43% - 95.53% |
| | | | | Umbilicaria maculata (1) | KY947793.1 | 93% | 95.27% |
| | | | | Umbilicaria polyrrhiza (2) | KY947838.1, JQ764737.1 | 97% - 100% | 95.05% - 95.16% |
| | | | | Umbilicaria altaiensis (1) | KY947786.1 | 99% | 95.11% |
| VI-a | 27B | Rhizocarpon | Rhizocarpon aff. geograp | Umbilicaria aprina (17) | KY947808.1, JQ739981.1, JX036075.1, ... | 88% - 100% | 95.21% - 98.90% |
| | | | | Umbilicaria africana (3) | KY947844.1, HM161482.1, KY947743.1 | 99% - 100% | 95.60% - 98.72% |
| | | | | Umbilicaria krascheninnikovii (1) | JQ739994.1 | 96% | 96.77% |
| | | | | Umbilicaria antarctica (31) | JQ739980.1, AY603124.1, KR053313.1, ... | 87% - 100% | 95.15% - 95.98% |
| VI-a | 66A1 | Rhizocarpon | Rhizocarpon aff. geograp | Umbilicaria rhizinata (1) | KY948011.1 | 100% | 95.96% |
| | | | | Umbilicaria formosana (2) | JQ739988.1, KY947733.1 | 96% - 100% | 95.60% - 95.82% |
| | | | | Umbilicaria kappenii (6) | AY603132.1, AY603130.1, AJ431599.1, ... | 84% - 100% | 95.13% - 95.79% |
| | | | | Umbilicaria proboscidea (8) | KY266839.1, FR799304.1, ON362174.1, ... | 89% - 99% | 95.18% - 95.76% |
| VI-a | 26E | Rhizocarpon | Rhizocarpon aff. geograp | Umbilicaria decussata (11) | KP314408.1, KY947795.1, HM161501.1, ... | 83% - 100% | 95% - 95.68% |
| | | | | Umbilicaria virginis (2) | KY947832.1, KY947767.1 | 97% - 100% | 95.29% - 95.60% |
| | | | | uncultured eukaryote (1) | LC487926.1 | 99% | 95.57% |
| | | | | Umbilicaria polaris (1) | KY947759.1 | 97% | 95.29% |
| VI-a | 27B | Rhizocarpon | Rhizocarpon aff. geograp | Umbilicaria polaris (1) | KY947759.1 | 97% | 95.29% |
| | | | | Rhizocarpon geographicum (29) | DQ534482.1, KC740079.1, KC740059.1, ... | 100% | 95.02% - 99.75% |
| | | | | Rhizocarpon nidificum (1) | DQ534483.2 | 100% | 99.75% |
| | | | | Rhizocarpon aff. geographicum (21) | MZ244025.1, MZ244023.1, MZ244020.1, ... | 100% | 95.02% - 99.25% |
| VI-a | 66A1 | Rhizocarpon | Rhizocarpon aff. geograp | Rhizocarpon sp. (1) | OM065444.1 | 100% | 95.07% |
| | | | | Rhizocarpon saanaense (2) | MZ188989.1, MZ188988.1 | 100% | 95.04% |
| | | | | Rhizocarpon geographicum (30) | DQ534482.1, KC740079.1, KC740059.1, ... | 99% - 100% | 95.14% - 100% |
| | | | | Rhizocarpon nidificum (1) | DQ534483.2 | 100% | 100% |
| VI-a | 26E | Rhizocarpon | Rhizocarpon aff. geograp | Rhizocarpon aff. geographicum (21) | MZ244025.1, MZ244023.1, MZ244020.1, ... | 98% | 95.47% - 99.59% |
| | | | | Rhizocarpon sp. (2) | KP314309.1, OM065444.1 | 98% - 99% | 95.71% - 95.74% |
| | | | | Rhizocarpon saanaense (2) | MZ188989.1, MZ188988.1 | 99% | 95.55% |
| | | | | Rhizocarpon geographicum (38) | DQ534482.1, KC740079.1, KC740059.1, ... | 99% - 100% | 95.05% - 100% |

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|--------|----------|--------------------|----------------------|-------------------------------------|--|------------|-----------------|
| | | | | Rhizocarpon nidificum (1) | DQ534483.2 | 100% | 100% |
| | | | | Rhizocarpon aff. geographicum (21) | MZ244025.1, MZ244023.1, MZ244020.1, ... | 99% - 100% | 95.08% - 99.48% |
| | | | | Rhizocarpon sp. (2) | KP314309.1, OM065444.1 | 100% | 95.14% - 95.36% |
| | | | | Rhizocarpon saanaense (2) | MZ188989.1, MZ188988.1 | 100% | 95.09% |
| VI-b | 51A6 | Rhizocarpon | Rhizocarpon sp. | Rhizocarpon effiguratum (1) | KC740024.1 | 99% | 88.58% |
| | | | | Rhizocarpon dispersum (2) | KC740033.1, KC740032.1 | 100% | 88.24% - 88.40% |
| | | | | Rhizocarpon norvegicum (2) | KY680775.1, KY680776.1 | 99% - 100% | 86.97% - 88.33% |
| | | | | Rhizocarpon alpicola (2) | KC740020.1, KC740019.1 | 98% - 99% | 88.04% - 88.25% |
| | | | | Rhizocarpon geographicum (80) | KC740173.1, KC757483.1, KC740097.1, ... | 95% - 100% | 85.11% - 87.76% |
| | | | | Rhizocarpon atroflavescens (4) | MK629881.1, MK625448.1, KY680777.1, ... | 97% - 100% | 86.84% - 87.48% |
| | | | | Rhizocarpon pusillum (1) | KC740025.1 | 97% | 86.79% |
| | | | | Rhizocarpon furax (1) | MT108257.1 | 100% | 86.40% |
| | | | | Rhizocarpon copelandii (3) | KU687456.1, KU687455.1, KU687447.1 | 97% | 86.19% |
| | | | | Rhizocarpon jemtlandicum (3) | KU687460.1, KU687446.1, KU687445.1 | 97% | 85.90% - 86.09% |
| | | | | Rhizocarpon geminatum var. citrinum | OK333016.1 | 100% | 85.41% |
| | | | | | | | |
| VII-a | 58A1_Bot | Psoroma hypnori | Psoroma hypnorum | Psoroma hypnorum (14) | GQ927297.1, MK811764.1, MZ159608.1, ... | 94% - 100% | 96.09% - 100% |
| | | | | Psoroma cf. hypnorum (1) | MN483079.1 | 99% | 98.34% |
| | | | | Uncultured fungus (1) | KC965717.1 | 100% | 97.33% |
| VII-a | 60A1 | Psoroma hypnori | Psoroma hypnorum | Psoroma hypnorum (14) | GQ927297.1, MK811764.1, MZ159608.1, ... | 94% - 100% | 95.88% - 99.79% |
| | | | | Psoroma cf. hypnorum (1) | MN483079.1 | 99% | 98.14% |
| | | | | Uncultured fungus (1) | KC965717.1 | 100% | 97.13% |
| VII-b | 72A2_S | Psoroma | Psoroma hypnorum | Psoroma hypnorum (4) | MH802363.1, MZ159608.1, KY266971.1, ... | 87% | 93.64% - 94.54% |
| | | | | Psoroma cf. hypnorum (1) | MN483079.1 | 87% | 94.17% |
| | | | | uncultured fungus (3) | KC965717.1, KC965712.1, KC966165.1 | 86% - 99% | 84.1% - 93.44% |
| | | | | Psoroma cinnamomeum (2) | GQ927293.1, GQ927292.1 | 98% - 99% | 84.52% - 84.75% |
| | | | | Psoroma tenue (2) | GQ927291.1, GQ927290.1 | 98% | 84.20% |
| | | | | Lecanoromycetidae sp. TS-2019a (1) | MN483146.1 | 89% | 83.73% |
| | | | | Psoroma paleaceum (1) | GQ927305.1 | 95% | 83.25% |
| VIII-a | 48F1_Sup | Lecanora polytro | Lecanora polytropa | Lecanora polytropa (1) | DQ534470.2 | 100% | 99.67% |
| VIII-b | 49G | Lecanora | Lecanora sp. s.lat. | Lecanora cf. polytropa (169) | ON180214.1, ON180212.1, ON180059.1, ... | 90% - 93% | 95.86% - 98.71% |
| | | | | Lecanora polytropa (38) | KP314358.1, MZ243613.1, KP314458.1, ... | 91% - 99% | 96.11% - 98.32% |
| | | | | Lecanora fuscobrunnea (8) | GU170839.1, MK970661.1, JN873872.2, ... | 89% - 100% | 97.35% - 97.87% |
| | | | | Rhizoplaca sp. (1) | JX036118.1 | 92% | 97.42% |
| | | | | Lecanora intricata (3) | OL603995.1, OL604031.1, AY398703.1 | 88% - 100% | 96.44% - 97.33% |
| | | | | Lecanora chlorophaeodes (1) | AY398704.1 | 100% | 96.70% |
| | | | | Rhizoplaca aspidophora (1) | DQ534484.2 | 100% | 97.16% |
| | | | | Rhizoplaca aspidophora (1) | DQ534484.2 | 100% | 100% |
| | | | | Rhizoplaca sp. (1) | JX036118.1 | 100% | 99.10% |
| | | | | Lecanora fuscobrunnea (13) | MK970661.1, JN873872.2, GU170839.1, ... | 88% - 100% | 98.59% - 99.10% |
| | | | | Lecanora cf. polytropa (135) | ON180226.1, ON179998.1, ON180108.1, ... | 98% | 95.41% - 98.63% |
| VIII-b | 49B | Lecanora | Lecanora sp. s.lat. | Lecanora polytropa (39) | HQ650643.1, KP314321.1, MZ243599.1, ... | 97% - 100% | 95% - 98.42% |
| | | | | Lecanora intricata (3) | OL604031.1, OL603995.1, OL603994.1 | 86% - 100% | 96.40% - 97.29% |
| | | | | Lecanora cf. Intricata (1) | ON179989.1 | 98% | 95.22% |
| | | | | Lecanora chlorophaeodes (2) | AY398704.1, AF070029.1 | 97% | 95.15% |
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| IX | 18F | Lecidella carpathi | Lecidella carpathica | Lecidella carpathica (2) | DQ534471.2, MT139649.1 | 100% | 97.45% - 99.87% |
| | | | | Sarcogyne sp. (1) | ON794211.1 | 95% | 96.78% |
| | | | | Lecidella stigmathea (3) | MT139650.1, MT139653.1, MZ159382.1 | 98% - 100% | 96.13% - 96.65% |
| | | | | Lecidella greenii (10) | NR_137582.2, JX036151.1, JX036150.1, ... | 81% - 100% | 95.01% - 95.4% |
| | | | | Lecidella patavina (1) | MT273115.1 | 100% | 95.03% |
| | | | | Lecidea sp. (1) | AY667581.1 | 100% | 95.03% |
| IX | 73A_Sup | Lecidella carpathi | Lecidella carpathica | Lecidella carpathica (2) | DQ534471.2, MT139649.1 | 100% | 97.34% - 99.73% |
| | | | | Sarcogyne sp. (1) | ON794211.1 | 94% | 96.64% |
| | | | | Lecidella stigmathea (3) | MT139650.1, MZ159382.1, MT139653.1 | 99% - 100% | 96.01% - 96.54% |
| | | | | Lecidella greenii (8) | NR_137582.2, JX036151.1, JX036150.1, ... | 81% - 100% | 95.05% - 95.96% |
| | | | | | | | |
| X | 24B | Candelariella flav | Candelariella flava | Candelariella flava (3) | MZ919298.1, MZ919299.1, MZ919301.1 | 98% - 100% | 96.79% - 99.12% |
| X | 24D | Candelariella flav | Candelariella flava | Candelariella flava (3) | MZ919298.1, MZ919299.1, MZ919301.1 | 98% - 100% | 97.05% - 99.45% |
| XI | 72A3 | Steinera | Steinera intricata | Steinera intricata (10) | MH717151.1, MF893082.1, OP324617.1, ... | 96% - 100% | 95.71% - 100% |
| | | | | Steinera isidiata (4) | MF893086.1, NR_152550.1, MF893087.1, ... | 96% | 95.71% - 95.92% |
| | | | | Steinera subantarctica (1) | MF893108.1 | 96% | 95.09% |
| | | | | | | | |
| XI | 69A2_Bot | Steinera | Steinera intricata | Steinera intricata (10) | MH717151.1, MF893082.1, OP324617.1, ... | 87% - 98% | 95.61% - 100% |
| | | | | Steinera isidiata (4) | MF893086.1, NR_152550.1, MF893087.1, ... | 87% | 95.61% - 95.82% |
| | | | | Steinera subantarctica (1) | MF893108.1 | 87% | 95% |
| XI | 30A2 | Steinera | Steinera intricata | Steinera intricata (10) | MH717151.1, MF893082.1, OP324617.1, ... | 92% - 100% | 96.57% - 99.77% |
| | | | | Steinera isidiata (4) | MF893086.1, NR_152550.1, MF893087.1, ... | 92% | 97.02% - 97.25% |
| | | | | Steinera subantarctica (1) | MF893108.1 | 92% | 96.80% |
| | | | | Steinera latipora (1) | MF893088.1 | 80% | 95.54% |
| | | | | Steinera pannarioides (1) | NR_152553.1 | 80% | 95.50% |
| | | | | Steinera sp. (1) | MK571785.1 | 92% | 95.21% |
| | | | | | | | |
| XI | 68A4 | Steinera | Steinera intricata | Steinera intricata (10) | MH717160.1, MF893082.1, OP324617.1, ... | 99% - 100% | 96.88% - 100% |
| | | | | Steinera subantarctica (1) | MF893108.1 | 99% | 97.73% |
| | | | | Steinera isidiata (5) | MF893086.1, NR_152550.1, MF893087.1, ... | 99% | 95.18% - 97.45% |
| | | | | Steinera latipora (1) | MF893088.1 | 98% | 95.76% |
| | | | | Steinera pannarioides (4) | MF893107.1, MF893106.1, NR_152553.1, ... | 98% | 95.74% |
| | | | | Steinera sp. (2) | MK571784.1, MK571785.1 | 99% | 96.32% - 96.34% |
| | | | | Steinera lebouvieri (3) | NR_152551.1, MF893090.1, MF893089.1 | 98% | 96.31% |
| XI | 75A2 | Steinera | Steinera intricata | Steinera intricata (10) | MH717153.1, MF893082.1, OP324617.1, ... | 99% - 100% | 96.74% - 100% |
| | | | | Steinera isidiata (5) | MF893086.1, NR_152550.1, MF893087.1, ... | 99% | 95.90% - 98.09% |
| | | | | Steinera subantarctica (1) | MF893108.1 | 99% | 97.55% |
| | | | | Steinera latipora (1) | MF893088.1 | 99% | 95.90% |
| | | | | Steinera pannarioides (4) | MF893107.1, MF893106.1, NR_152553.1, ... | 99% | 95.90% |
| | | | | Steinera lebouvieri (3) | NR_152551.1, MF893090.1, MF893089.1 | 98% | 96.14% - 96.69% |
| | | | | Steinera sp. (2) | MK571784.1, MK571785.1 | 97% - 98% | 96.42% - 96.43% |
| | | | | | | | |
| XI | 68A3_Bot | Steinera | Steinera intricata | Steinera intricata (10) | MH717153.1, MF893082.1, OP324617.1, ... | 99% - 100% | 97.17% - 100% |
| | | | | Steinera subantarctica (1) | MF893108.1 | 99% | 98.30% |
| | | | | Steinera isidiata (5) | MF893086.1, NR_152550.1, MF893087.1, ... | 99% | 95.74% - 98.01% |
| | | | | Steinera lebouvieri (3) | NR_152551.1, MF893090.1, MF893089.1 | 98% | 96.87% |
| | | | | Steinera sp. (2) | MK571784.1, MK571785.1 | 99% | 96.32% - 96.34% |
| | | | | Steinera pannarioides (4) | MF893107.1, MF893106.1, NR_152553.1, ... | 98% | 96.30% |
| | | | | Steinera latipora (1) | MF893088.1 | 98% | 96.05% |
| XI | 72A2_Bot | Steinera | Steinera intricata | Steinera intricata (10) | MH717160.1, MF893082.1, OP324617.1, ... | 100% | 97.08% - 100% |
| | | | | Steinera subantarctica (1) | MF893108.1 | 99% | 97.95% |
| | | | | Steinera isidiata (5) | MF893086.1, NR_152550.1, MF893087.1, ... | 100% | 95.34% - 97.67% |
| | | | | Steinera sp. (2) | MK571784.1, MK571785.1 | 100% | 96.21% - 96.23% |
| | | | | Steinera pannarioides (4) | MF893107.1, MF893106.1, NR_152553.1, ... | 100% | 96.21% |
| | | | | Steinera lebouvieri (3) | NR_152551.1, MF893090.1, MF893089.1 | 100% | 96.21% |
| | | | | Steinera latipora (1) | MF893088.1 | 100% | 96.21% |
| | | | | | | | |
| XII | 69A3_Bot | Lepraria | Lepraria sp. | Lepraria elobata (14) | AF517909.1, JQ070298.1, MG554669.1, ... | 88% - 100% | 95.71% - 97.46% |
| | | | | Lepraria cf. caesioalba (3) | AF517894.1, AF517905.1, AF517919.1 | 96% | 95.77% - 97.45% |
| | | | | Lepraria caesioalba (8) | AF517901.1, EU008610.1, MZ244060.1, ... | 90% - 100% | 96.52% - 97.44% |
| | | | | Lepraria granulata (1) | DQ914539.1 | 100% | 97.35% |

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|--------|------|------------------------------------|--------------------|---------------------------------|---|------------|-----------------|
| | | | | Lepraria neglecta (33) | KC209139.1, KC209159.1, KC209164.1, ... | 96% - 100% | 95.09% - 97.34% |
| | | | | Lepraria sp. (6) | DQ914543.1, EU008630.1, OL625386.1, ... | 93% - 100% | 95.11% - 96.94% |
| | | | | Uncultured fungus (1) | KC965398.1 | 100% | 96.72% |
| | | | | Lepraria membranacea (1) | DQ534473.2 | 100% | 96.52% |
| | | | | Lepraria cacuminum (1) | AF517888.1 | 96% | 96.19% |
| | | | | Lepraria atlantica (4) | EF619550.1, EF619549.1, AF517887.1, ... | 96% - 100% | 95.56% - 95.92% |
| | | | | Lepraria humida (9) | EF619551.1, DQ401101.1, KC209155.1, ... | 87% - 100% | 95.3% - 95.91% |
| | | | | Lepraria borealis (1) | AF517908.1 | 96% | 95.76% |
| | | | | Lepraria jackii (3) | MG554672.1, KF682451.1, KF682450.1 | 93% - 100% | 95.11% - 95.64% |
| XIII-a | 14A | Stereocaulon | Stereocaulon sp. 1 | Stereocaulon alpinum (158) | EU161238.1, DQ534486.2, MK812253.1, ... | 90% - 100% | 95.46% - 100% |
| | | | | Stereocaulon sp. (135) | MH415129.1, MN596951.1, MH415121.1, ... | 81% - 100% | 95% - 100% |
| | | | | Stereocaulon grande (1) | MK812157.1 | 96% | 99.32% |
| | | | | Stereocaulon saxatile (6) | DQ396927.1, DQ396928.1, DQ396926.1, ... | 99% | 96.10% - 99.13% |
| | | | | Stereocaulon tomentosum (9) | EU008634.1, DQ001301.1, KP314447.1, ... | 99% - 100% | 96.52% - 97.60% |
| | | | | Stereocaulon paschale (3) | DQ396897.1, HQ650690.1, DQ396924.1 | 99% - 100% | 96.54% - 97.40% |
| | | | | Stereocaulon intermedium (7) | DQ396938.1, KP348010.1, KF928152.1, ... | 99% - 100% | 95.88% - 97.40% |
| | | | | uncultured Stereocaulaceae (1) | FJ552738.1 | 100% | 97.40% |
| | | | | Stereocaulon sasakii (2) | DQ396958.1, DQ396957.1 | 99% | 96.75% - 97.18% |
| | | | | Stereocaulon myriocarpum (3) | DQ396954.1, DQ396932.1, DQ396931.1 | 99% | 96.96% - 97.39% |
| | | | | Stereocaulon alpestre (1) | DQ396893.1 | 99% | 96.96% |
| | | | | Stereocaulon botryosum (4) | DQ396952.1, KP314386.1, EU008632.1, ... | 99% - 100% | 96.73% - 96.96% |
| | | | | Stereocaulon condensatum (2) | ON228407.1, MT512646.1 | 100% | 96.32% - 96.96% |
| | | | | Stereocaulon subcoralloides (2) | EU008633.1, DQ396896.1 | 99% | 96.75% - 96.95% |
| | | | | Stereocaulon evolutum (2) | DQ396922.1, MZ159744.1 | 99% - 100% | 96.54% - 96.74% |
| | | | | Stereocaulon glabrum (7) | DQ396910.1, DQ396902.1, DQ396901.1, ... | 96% - 99% | 95.22% - 96.52% |
| | | | | Stereocaulon verruculigerum | DQ396968.1 | 83% | 96.38% |
| | | | | Stereocaulon taeniarum (1) | DQ396919.1 | 99% | 96.32% |
| | | | | Stereocaulon rivulorum (4) | MK812658.1, DQ396967.1, AF517928.1, ... | 99% - 100% | 96.08% - 96.31% |
| | | | | Stereocaulon farinaceum (1) | DQ396973.1 | 99% | 96.30% |
| | | | | Stereocaulon apocalypticum (1) | LC516206.1 | 100% | 96.10% |
| | | | | Stereocaulon curtatum (1) | DQ396949.1 | 99% | 95.87% |
| | | | | Stereocaulon exutum (1) | KP324744.1 | 99% | 95.87% |
| | | | | Stereocaulon glareosum (1) | DQ396974.1 | 99% | 95.67% |
| | | | | Stereocaulon nanodes (1) | DQ396970.1 | 99% | 95.65% |
| | | | | Stereocaulon pileatum (4) | OL625595.1, AF517927.1, MK812510.1, ... | 84% - 85% | 95.2% - 95.45% |
| | | | | Stereocaulon vesuvianum (1) | OL625606.1 | 81% | 95.26% |
| | | | | Stereocaulon verruciferum (1) | DQ396899.1 | 85% | 95.17% |
| | | | | Stereocaulon depreautii (1) | DQ396947.1 | 99% | 95.02% |
| XIII-a | 1B | Stereocaulon | Stereocaulon sp. 1 | Stereocaulon alpinum (154) | DQ396915.1, EU161238.1, MK812253.1, ... | 83% - 100% | 95.11% - 100% |
| | | | | Stereocaulon sp. (114) | MN839754.1, MN839753.1, MH415129.1, ... | 80% - 100% | 95.04% - 100% |
| | | | | Stereocaulon saxatile (6) | DQ396927.1, DQ396928.1, DQ396926.1, ... | 89% | 96.37% - 99.09% |
| | | | | Stereocaulon paschale (3) | DQ396897.1, HQ650690.1, DQ396924.1 | 89% - 98% | 96.73% - 97.28% |
| | | | | uncultured Stereocaulaceae (1) | FJ552738.1 | 98% | 97.19% |
| | | | | Stereocaulon tomentosum (9) | DQ396894.1, EU008634.1, KP314447.1, ... | 87% - 99% | 95.45% - 97.09% |
| | | | | Stereocaulon subcoralloides (2) | EU008633.1, DQ396896.1 | 87% - 89% | 96.91% - 97.01% |
| | | | | Stereocaulon botryosum (4) | EU008632.1, KP314389.1, DQ396952.1 | 86% - 96% | 96.54% - 96.81% |
| | | | | Stereocaulon sasakii (2) | DQ396958.1, DQ396957.1 | 89% | 96.18% - 96.55% |
| | | | | Stereocaulon taeniarum (1) | DQ396919.1 | 89% | 96.55% |
| | | | | Stereocaulon myriocarpum (3) | DQ396954.1, DQ396932.1, DQ396931.1 | 89% | 96.36% - 96.54% |
| | | | | Stereocaulon condensatum (2) | ON228407.1, MT512646.1 | 97% - 98% | 96.36% - 96.49% |
| | | | | Stereocaulon alpestre (1) | DQ396893.1 | 89% | 96.36% |
| | | | | Stereocaulon intermedium (7) | DQ396938.1, KP348010.1, KF928152.1, ... | 89% - 96% | 95.77% - 96.36% |
| | | | | Stereocaulon glabrum (7) | DQ396910.1, DQ396902.1, DQ396901.1, ... | 86% - 89% | 95.26% - 96.36% |
| | | | | Stereocaulon evolutum (2) | MZ159744.1, DQ396922.1 | 89% - 98% | 96.36% |
| | | | | Stereocaulon rivulorum (4) | MK812658.1, DQ396967.1, AF517928.1, ... | 84% - 97% | 95.8% - 96.31% |
| | | | | Stereocaulon farinaceum (1) | DQ396973.1 | 89% | 96.17% |
| | | | | Stereocaulon apocalypticum (1) | LC516206.1 | 99% | 96.08% |
| | | | | Stereocaulon nanodes (1) | DQ396970.1 | 89% | 95.99% |
| | | | | Stereocaulon exutum (1) | KP324744.1 | 92% | 95.76% |
| | | | | Stereocaulon glareosum (1) | DQ396974.1 | 86% | 95.31% |
| | | | | Stereocaulon symphycheilum (3) | MK812328.1, MK812189.1, MK811941.1 | 97% | 95.15% |
| XIII-b | 28B | Stereocaulon | Stereocaulon sp. 2 | Stereocaulon glabrum (7) | DQ396901.1, DQ396902.1, DQ396911.1, ... | 95% - 98% | 97.08% - 99.45% |
| | | | | Stereocaulon sp. (66) | MH414985.1, MH415062.1, MN839743.1, ... | 85% - 100% | 95.04% - 98.75% |
| | | | | Stereocaulon subcoralloides (2) | EU008633.1, DQ396896.1 | 95% - 98% | 96.17% - 96.44% |
| | | | | Stereocaulon saxatile (5) | DQ396926.1, DQ396918.1, DQ396927.1, ... | 98% | 95.08% - 96.36% |
| | | | | Stereocaulon botryosum (3) | EU008632.1, KP314389.1, DQ396952.1 | 95% - 99% | 95.06% - 96.05% |
| | | | | Stereocaulon paschale (3) | DQ396897.1, HQ650690.1, DQ396924.1 | 98% - 100% | 95.08% - 95.82% |
| | | | | Stereocaulon evolutum (1) | DQ396922.1 | 98% | 95.80% |
| | | | | Stereocaulon intermedium (2) | DQ396934.1, DQ396938.1 | 98% | 95.44% - 95.62% |
| | | | | Stereocaulon alpinum (9) | EU161238.1, DQ534486.2, MK812253.1, ... | 80% - 100% | 95.13% - 95.53% |
| | | | | Stereocaulon myriocarpum (2) | DQ396932.1, DQ396954.1 | 98% | 95.07% - 95.26% |
| | | | | Stereocaulon nanodes (1) | DQ396970.1 | 96% | 95.16% |
| | | | | Stereocaulon tomentosum (2) | DQ001301.1, DQ396894.1 | 98% - 100% | 95.06% - 95.34% |
| | | | | uncultured Stereocaulaceae (1) | FJ552738.1 | 100% | 95.15% |
| XIII-b | 91A | Stereocaulon | Stereocaulon sp. 2 | Stereocaulon glabrum (7) | DQ396902.1, DQ396911.1, DQ396909.1, ... | 100% | 97.62% - 100% |
| | | | | Stereocaulon sp. (80) | MH414985.1, MH415062.1, MN839750.1, ... | 94% - 100% | 95.01% - 99.78% |
| | | | | Stereocaulon paschale (3) | DQ396897.1, HQ650690.1, DQ396924.1 | 100% | 96.11% - 96.54% |
| | | | | Stereocaulon saxatile (6) | DQ396926.1, DQ396918.1, DQ396923.1, ... | 100% | 95.90% - 96.54% |
| | | | | Stereocaulon grande (1) | MK812157.1 | 85% | 96.45% |
| | | | | Stereocaulon subcoralloides (2) | EU008633.1, DQ396896.1 | 100% | 96.33% |
| | | | | Stereocaulon alpinum (128) | DQ396900.1, EU161238.1, MT076377.1, ... | 85% - 100% | 95.01% - 96.32% |
| | | | | Stereocaulon intermedium (2) | DQ396938.1, DQ396934.1 | 100% | 96.10% |
| | | | | Stereocaulon botryosum (2) | EU008632.1, KP314386.1 | 100% | 95.01% - 95.90% |
| | | | | Stereocaulon taeniarum (1) | DQ396919.1 | 100% | 95.90% |
| | | | | Stereocaulon evolutum (1) | DQ396922.1 | 100% | 95.67% |
| | | | | Stereocaulon myriocarpum (3) | DQ396932.1, DQ396954.1, DQ396931.1 | 100% | 95.24% - 95.67% |
| | | | | Stereocaulon tomentosum (5) | DQ001301.1, EU008634.1, DQ396908.1, ... | 100% | 95.01% - 95.67% |
| | | | | Stereocaulon sasakii (2) | DQ396957.1, DQ396958.1 | 100% | 95.02% - 95.24% |
| | | | | Stereocaulon apocalypticum (1) | LC516206.1 | 100% | 95.03% |
| XIV | 94A2 | Lecanoromycete: Myriospora sp. | | Stereocaulon alpestre (1) | DQ396893.1 | 100% | 95.03% |
| | | | | uncultured Stereocaulaceae (1) | FJ552738.1 | 100% | 95.01% |
| | | | | Myriospora signyensis (4) | MF074120.1, MF074119.1, MF074121.1, ... | 99% | 95.33% - 99.80% |
| | | | | Lecanoromycetes sp. (2) | MH349730.1, MH071786.1 | 90% - 96% | 99.37% - 99.55% |
| | | | | Myriospora smaragdula (15) | EU870663.1, EU870664.1, DQ374141.1, ... | 98% | 95.19% - 96.72% |
| | | | | Myriospora scabrida (10) | MZ262724.1, MF074118.1, DQ525526.1, ... | 90% - 100% | 95.51% - 96.44% |
| | | | | Myriospora sp. (2) | MZ262716.1, OP162400.1 | 95% - 100% | 95.96% - 96.41% |
| | | | | Myriospora rhagadiza (1) | MF095738.1 | 100% | 96.16% |
| | | | | Myriospora myochroa (1) | MF095737.1 | 100% | 95.56% |
| | | | | Myriospora hassei (1) | MW715698.1 | 86% | 95.35% |
| XV | 110A | Lecidea / Sarcogy Lecidea sp. s.l. | | Lecidea sp. (24) | MK970676.1, EU263928.1, MZ243696.1, ... | 94% - 99% | 85.43% - 87.33% |
| | | | | Lecidea polypynidophora (17) | MH231446.1, MT273102.1, EU257682.1, ... | 98% - 99% | 86.34% - 87.15% |

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| | | | Lecidea aff. laboriosa (5) | MK990116.1, MK990124.1, MK990115.1, ... | 94% - 99% | 86.14% - 87.03% |
| | | | Lecidea perlatolicea (2) | MK595453.1, MZ243725.1 | 99% | 85.15% - 86.65% |
| | | | Lecidea andersonii (21) | MK620084.1, GU074446.1, MZ243679.1, ... | 94% - 99% | 85.14% - 86.64% |
| | | | Lecidea aff. polypycnidophora (1) | MK990117.1 | 99% | 86.56% |
| | | | Lecidea promiscens (1) | MK595687.1 | 99% | 86.53% |
| | | | Lecidea laboriosa (7) | EU259902.1, MZ243714.1, MW443062.1, ... | 98% - 99% | 85.54% - 86.51% |
| | | | Lecidea cf. polypycnidophora (1) | MK620081.1 | 97% | 86.44% |
| | | | Lecidea aff. andersonii (3) | MK990111.1, MK990109.1, MK990110.1 | 93% - 100% | 85.74% - 86.41% |
| | | | Sarcogyne sp. (1) | OP162364.1 | 99% | 86.36% |
| | | | Lecidea cancriformis (3) | AY667582.1, MK970678.1, MK970677.1 | 99% | 85.07% - 86.17% |
| | | | Lecidea hassei (1) | ON707103.1 | 98% | 86.17% |
| | | | Lecidea violascens (1) | MZ922140.1 | 98% | 85.80% |
| | | | Lecidea atrobrunnea (6) | GU074457.1, MT273109.1, MW443068.1, ... | 98% - 99% | 84.95% - 85.31% |
| | | | Lecidea confluens (1) | EU263921.1 | 99% | 85.18% |
| | | | Lecidea syncarpa (3) | MZ243739.1, MK990107.1, KF570277.1 | 98% - 99% | 84.58% - 85.08% |
| | | | Lecidea leucothallina (2) | MG968258.1, MG968256.1 | 99% | 84.86% |
| XV | 111A | Lecidea / Sarcogyne | Lecidea sp. (24) | MK970676.1, EU263928.1, MZ243696.1, ... | 94% - 100% | 85.43% - 87.33% |
| | | | Lecidea polypycnidophora (17) | MH231446.1, MT273102.1, EU257682.1, ... | 98% - 99% | 86.34% - 87.15% |
| | | | Lecidea aff. laboriosa (5) | MK990116.1, MK990124.1, MK990115.1, ... | 94% - 99% | 86.14% - 87.03% |
| | | | Lecidea perlatolicea (2) | MK595453.1, MZ243725.1 | 99% - 100% | 85.04% - 86.65% |
| | | | Lecidea andersonii (21) | MK620084.1, GU074446.1, MZ243679.1, ... | 94% - 99% | 85.14% - 86.64% |
| | | | Lecidea aff. polypycnidophora (1) | MK990117.1 | 99% | 86.56% |
| | | | Lecidea promiscens (1) | MK595687.1 | 99% | 86.53% |
| | | | Lecidea laboriosa (7) | EU259902.1, MZ243714.1, MW443062.1, ... | 97% - 99% | 85.54% - 86.51% |
| | | | Lecidea cf. polypycnidophora (1) | MK620081.1 | 97% | 86.44% |
| | | | Lecidea aff. andersonii (3) | MK990111.1, MK990109.1, MK990110.1 | 92% - 100% | 85.74% - 86.41% |
| | | | Sarcogyne sp. (1) | OP162364.1 | 99% | 86.36% |
| | | | Lecidea cancriformis (3) | AY667582.1, MK970678.1, MK970677.1 | 99% | 85.07% - 86.17% |
| | | | Lecidea hassei (1) | ON707103.1 | 98% | 86.17% |
| | | | Lecidea violascens (1) | MZ922140.1 | 98% | 85.80% |
| | | | Lecidea atrobrunnea (6) | GU074457.1, MT273109.1, MW443068.1, ... | 98% - 100% | 84.95% - 85.20% |
| | | | Lecidea confluens (1) | EU263921.1 | 99% | 85.18% |
| | | | Lecidea syncarpa (3) | MZ243739.1, MK990107.1, KF570277.1 | 97% - 100% | 84.48% - 85.08% |
| | | | Lecidea leucothallina (2) | MG968258.1, MG968256.1 | 98% | 84.86% |
| XVI | 24C | Caliciaceae / Phyc. Buellia sp. s.lat. | Buellia frigida (14) | AY667583.1, AF281307.1, JX036142.1, ... | 87% - 100% | 87.38% - 88.18% |
| | | | Buellia sp. (5) | MK970688.1, JX036043.1, MN615683.1, ... | 94% - 100% | 81.87% - 87.79% |
| | | | Amandinea petermannii (1) | AF250779.1 | 98% | 87.55% |
| | | | Buellia russa (1) | DQ534454.2 | 100% | 87.02% |
| | | | Buellia aethalea (2) | AF540496.1, AY143410.1 | 97% - 98% | 86.14% - 87.01% |
| | | | Physciaceae sp. (1) | JF794067.1 | 99% | 86.91% |
| | | | Buellia ocellata (2) | AF540502.1, OK332942.1 | 98% - 100% | 85.11% - 86.36% |
| | | | Dimelaena oreina (14) | ON447572.1, OK569798.1, AI421417.1, ... | 84% - 100% | 82.18% - 85.45% |
| | | | Buellia sandstedei (3) | OL396606.1, OK332944.1, OK332945.1 | 90% - 100% | 83.52% - 85.11% |
| | | | Rinodina sp. (1) | ON707084.1 | 99% | 85.08% |
| | | | Amandinea punctata (7) | OL467351.1, HQ650627.1, EU681282.1, ... | 88% - 90% | 83.19% - 84.62% |
| | | | Dimelaena sp. (12) | MZ229882.1, MZ229869.1, MZ229884.1, ... | 87% - 100% | 82.01% - 84.57% |
| | | | Amandinea coniois (1) | KJ607904.1 | 89% | 84.52% |
| | | | Amandinea lecideina (1) | MZ159589.1 | 90% | 83.76% |
| | | | Buellia insignis (1) | OL467352.1 | 89% | 83.69% |
| | | | Buellia microcarpa (2) | OL396670.1, MZ968896.1 | 99% | 83.78% |
| | | | Buellia schaeeri (2) | MK778592.1, AF250791.1 | 88% - 89% | 83.37% - 83.73% |
| | | | Calicium sp. (1) | DQ812126.1 | 93% | 83.57% |
| | | | Buellia polita (7) | MN615679.1, MN615678.1, MN615675.1, ... | 92% | 83.26% - 83.47% |
| | | | Buellia subnumerosa (2) | LC153803.1, LC153802.1 | 89% | 83.33% |
| | | | Buellia boseongensis (1) | MF398999.1 | 88% | 83.19% |
| | | | Buellia geophila (1) | OL467354.1 | 89% | 83.12% |
| | | | Buellia badia (4) | MG250192.1, MK812426.1, KX512900.1, ... | 100% | 82.10% - 83.05% |
| | | | Calicium glaucellum (3) | AY450570.1, FR799141.1, DQ789082.1 | 93% | 82.23% - 82.72% |
| | | | Buellia muriformis (1) | AF540501.1 | 93% | 82.44% |
| | | | Calicium trabinellum (1) | AY450579.1 | 94% | 82.21% |
| | | | Calicium pinicola (3) | MK811674.1, KX512917.1, KX512916.1 | 94% | 81.78% |
| | | | Buellia halonia (1) | MN615680.1 | 95% | 81.69% |
| | | | Buellia papillata (1) | AF250790.1 | 97% | 81.57% |
| | | | Buellia spuria (1) | MN586930.1 | 100% | 81.30% |
| | | | Buellia penichra (1) | AF540503.1 | 97% | 80.88% |
| | | | Buellia arborea (1) | KX132975.1 | 100% | 80.35% |
| XVII-a | 108A | Letharia / Psilolec Austrolecia sp. | Letharia vulpina (19) | FJ161632.1, KU745854.1, KX132927.1, ... | 85% | 85.71% - 86.38% |
| | | | Letharia cf. columbiana (4) | MG645049.1, MG645045.1, MG645047.1, ... | 85% | 85.91% - 86.35% |
| | | | Letharia cf. vulpina (3) | MG645041.1, MG645035.1, MG645042.1 | 85% | 85.91% - 86.35% |
| | | | Letharia gracilis (2) | KJ565861.1, KJ565860.1 | 85% | 85.91% - 86.35% |
| | | | Fungal sp. (4) | JN053159.1, JN053126.1, JN053165.1, ... | 85% | 85.91% - 86.16% |
| | | | Letharia aff. columbiana (8) | KU745850.1, KU745811.1, MG645017.1, ... | 85% | 85.91% - 86.16% |
| | | | Letharia lupina (36) | FJ161472.1, MG645026.1, KU745844.1, ... | 85% | 85.68% - 86.16% |
| | | | Letharia sp. (1) | MW084670.1 | 85% | 86.16% |
| | | | Letharia aff. vulpina (5) | MG645036.1, MG645034.1, MG645033.1, ... | 85% | 86.16% |
| | | | Letharia columbiana (9) | KU745835.1, KU745837.1, KJ565865.1, ... | 85% | 85.91% - 86.13% |
| | | | Letharia aff. columbiana 'barbata' (2) | MG645015.1, MG645014.1 | 85% | 86.13% |
| | | | Letharia aff. columbiana 'rugosa' (1) | MG645030.1 | 85% | 85.94% |
| | | | Psilolechia clavulifera (2) | MK811831.1, AY756495.1 | 85% | 85.52% |
| | | | Psilolechia lucida (1) | MK811768.1 | 84% | 85.33% |
| XVII-a | 94A1 | Letharia / Psilolec Austrolecia sp. | Letharia vulpina (19) | FJ161632.1, KU745854.1, KX132927.1, ... | 85% | 85.71% - 86.38% |
| | | | Letharia cf. columbiana (4) | MG645049.1, MG645045.1, MG645047.1, ... | 85% | 85.91% - 86.35% |
| | | | Letharia cf. vulpina (3) | MG645041.1, MG645035.1, MG645042.1 | 85% | 85.91% - 86.35% |
| | | | Letharia gracilis (2) | KJ565861.1, KJ565860.1 | 85% | 85.91% - 86.35% |
| | | | Fungal sp. (4) | JN053159.1, JN053126.1, JN053165.1, ... | 85% | 85.91% - 86.16% |
| | | | Letharia aff. columbiana (8) | KU745850.1, KU745811.1, MG645017.1, ... | 85% | 85.91% - 86.16% |
| | | | Letharia lupina (36) | FJ161472.1, MG645026.1, KU745844.1, ... | 85% | 85.68% - 86.16% |
| | | | Letharia aff. vulpina (5) | MG645036.1, MG645034.1, MG645033.1, ... | 85% | 86.16% |
| | | | Letharia sp. (1) | MW084670.1 | 85% | 86.16% |
| | | | Letharia columbiana (9) | KU745835.1, KU745837.1, KJ565865.1, ... | 85% | 85.91% - 86.13% |
| | | | Letharia aff. columbiana 'barbata' (2) | MG645015.1, MG645014.1 | 85% | 86.13% |
| | | | Letharia aff. columbiana 'rugosa' (1) | MG645030.1 | 85% | 85.94% |
| | | | Psilolechia clavulifera (2) | MK811831.1, AY756495.1 | 85% | 85.52% |
| | | | Psilolechia lucida (1) | MK811768.1 | 84% | 85.33% |
| XVII-b | 103A | Parmeliaceae / Ps. Austrolecia sp. | Letharia vulpina (19) | FJ161632.1, MK811758.1, KJ565917.1, ... | 83% - 97% | 83.40% - 86.38% |
| | | | Letharia cf. vulpina (2) | MG645041.1, MG645035.1 | 83% | 86.16% - 86.35% |
| | | | Letharia cf. columbiana (4) | MG645049.1, MG645045.1, MG645047.1, ... | 83% | 85.91% - 86.35% |
| | | | Letharia gracilis (4) | KJ565861.1, MW084669.1, EU543560.1, ... | 83% - 97% | 83.37% - 86.35% |
| | | | Fungal sp. (3) | JN053159.1, JN053126.1, JN053165.1 | 83% | 86.13% - 86.16% |
| | | | Letharia lupina (25) | FJ161472.1, MG645026.1, KU745839.1, ... | 83% - 95% | 83.76% - 86.16% |
| | | | Letharia aff. vulpina (5) | MG645036.1, MG645034.1, MG645033.1, ... | 83% | 86.16% |

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|--------|------|-----------------------------------|--|---|-----------|-----------------|
| | | | Letharia columbiana (9) | KU745837.1, KJ565865.1, KJ565853.1, ... | 83% - 97% | 83.76% - 86.13% |
| | | | Letharia aff. columbiana (8) | KU745850.1, KU745811.1, MG645017.1, ... | 83% - 96% | 83.56% - 86.13% |
| | | | Letharia aff. columbiana 'barbata' (2) | MG645015.1, MG645014.1 | 83% | 86.13% |
| | | | Letharia aff. columbiana 'rugosa' (1) | MG645030.1 | 83% | 85.94% |
| | | | Psilolechia clavulifera (2) | MK811831.1, AY756495.1 | 84% | 85.52% |
| | | | Pleurosticta acetabulum (2) | HQ650613.1, AF058034.1 | 87% | 85.01% - 85.41% |
| | | | Usnea wasmuthii (2) | JN086334.1, JN086331.1 | 87% | 85.41% |
| | | | Usnea strigosa (2) | KC592273.1, MN038162.1 | 88% | 85.07% - 85.35% |
| | | | Usnea sp. (2) | MT553305.1, MT553285.1 | 87% - 88% | 85.19% - 85.32% |
| | | | Usnea flammea (1) | JN086293.1 | 88% | 85.11% |
| | | | Usnea subcornuta (1) | JN086325.1 | 90% | 85.06% |
| | | | Letharia sp. (1) | MW084670.1 | 97% | 84.01% |
| | | | Psilolechia lucida (1) | MK811768.1 | 95% | 82.64% |
| | | | Psilolechia leprosa (1) | JX171190.1 | 97% | 82.23% |
| | | | Menegazzia kawesqarica (1) | KR995291.1 | 96% | 82.21% |
| XVII-b | 107A | Parmeliaceae / P: Austrolecia sp. | Pleurosticta acetabulum (4) | HQ650613.1, AY581087.1, MK812572.1, ... | 85% | 89.36% - 89.87% |
| | | | Usnea strigosa (1) | MH310890.1 | 87% | 89.82% |
| | | | Letharia cf. columbiana (6) | MG645043.1, MG645052.1, MG645044.1, ... | 95% - 99% | 86.24% - 87.20% |
| | | | Letharia columbiana (10) | AF115762.2, KU745835.1, KJ565865.1, ... | 97% - 99% | 86.21% - 86.89% |
| | | | Letharia vulpina (19) | FJ161632.1, KU745854.1, KX132927.1, ... | 99% | 86.01% - 86.70% |
| | | | Letharia cf. vulpina (3) | MG645041.1, MG645035.1, MG645042.1 | 99% | 86.21% - 86.67% |
| | | | Letharia gracilis (2) | KJ565861.1, KJ565860.1 | 99% | 86.21% - 86.67% |
| | | | Fungal sp. (4) | JN053159.1, JN053126.1, JN053165.1, ... | 99% | 86.21% - 86.47% |
| | | | Letharia aff. columbiana (8) | KU745850.1, KU745811.1, MG645017.1, ... | 99% | 86.21% - 86.47% |
| | | | Letharia lupina (32) | FJ161472.1, MG645026.1, KU745844.1, ... | 99% | 85.98% - 86.47% |
| | | | Letharia sp. (1) | MW084670.1 | 99% | 86.47% |
| | | | Letharia aff. vulpina (5) | MG645036.1, MG645034.1, MG645033.1, ... | 99% | 86.47% |
| | | | Letharia aff. columbiana 'barbata' (2) | MG645015.1, MG645014.1 | 99% | 86.44% |
| | | | Letharia aff. columbiana 'rugosa' | MG645030.1 | 99% | 86.24% |
| | | | Psilolechia clavulifera (2) | MK811831.1, AY756495.1 | 97% | 86.21% |