Non-mycorrhizal fungi list

>56 cynrid AscomycotaA 1.6b(8)/2.4a(4) consensus

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ATTTT

>220.1.2e(21) cynspe AscomycotaA

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>222.1.3d(11)brown AscomycotaB1

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>222.1.3d(49) cynhyb AscomycotaA3

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>222.1.4c(8) cynhyb AscomycotaA

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>222.1.6d(8) cynhyb AscomycotaA (8)(9)(10) consensus

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G

>217.1 cynfle basidiomycete consensus 2b(10)/4c(10)

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>201.5.wp(26) cynfas *Dioszegia*

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>221.1.4b(22) cynuni *Coprinopsis* 1a

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>222.7.wp(6) cynhyb *Coprinus* 1b

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>222.1.3d(41) C. x ranaivosonii *Deconica* 1a

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>222.1.1k(7) C. x ranaivosonii *Deconica* 1b

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>201.2.wp(3) cynfas *Aplosporella*

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>222.7.wp(4) C. x ranaivosonii *Cladosporium*

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>57.2.4b cyngra *Muyocopron* (8)(14) consensus

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>222.1.1k(16) cynhyb PleosporalesA1

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>201 cynfas PleosporalesA2 2.wp(4)(8)/5.wp(34) consensus

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>222.1.1k(8) cynhyb *Curvularia* A

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>71.1.1b(3) cyngib *Alternaria*

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>201.2.wp cynfas Pleosporales *Stagonospora* (6)(7) consensus

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>221.1 cynuni Toxicocladosporium A 1b(30)(32)(34)(35)(37)(39)(46)(47)(49)(50)/ 4b(19)(24)(37)(39)

consensus

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>222.1 cynhyb *Toxicocladosporium* A 1b(11)/3d(18)(32) consensus

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>222.1.1k(6) cynhyb Dothideomycetes

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>221.1.3b(1) cynuni *Eutiarosporella*

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>222.1.1b(6) cynhyb *Aspergillus* (6)(7) consensus

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>73.1.5b(12) cynpap Eurotiomycetes

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>221.1.1b(45) cynuni Talaromyces 1b(45)/4b(9) consensus

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>57.2.2e(11) cyngra Penicillium C1

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>222.1 cynhyb *Penicillium* C2 1b(1)(19)/1k(4) consensus

AACCTGCGGAAGGATCATTACCGAGTGAGGGCCCTCTGGGTCCAACCTCCCACCCGTGTTTATCGTACCTTGTT GCTTCGGCGGGCCCGCCGTTCCGGCCGCCGGGGGGCATCCGCCCCCGGGCCCGCGCCCGCCGAAGACACCAT TGAACGCTGTCTGAAGATTGCAGTCTGAGCGATTAGCTAAATCAGTTAAAACTTTCAACAACGGATCTCTTGGT TCCGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAGT CTTTGAACGCACATTGCGCCCCCTGGTATTCCGGGGGGCATGCCTGTCCGAGCGTCATTGCTGCCCTCAAGCA CGGCTTGTGTGTTGGGCCCCGCCCCCCGGCTACCGGGGGGCGGGCCCGAAAGGCAGCGGCGGCACCGCGTC CGGTCCTCGAGCGTATGGGGCTTCGTCACCCGCTCTGTAGGCCCGGCCGGCGCCCGCCGGCGACCCCCCTCAA

TCTTTCTCAGGTTGACCTCGGATC

>217.1.4c(5) cynfle *Penicillium* C3

TTCCGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGAGGGCCCTCTGGGTCCAACCTCCCACCCGTGTTTA TCGTACCTTGTTGCTTCGGCGGGCCCGCCTCACGGCCGCCGGGGGGCATCCGCCCCCGGGCCCGCGCCCGCC GAAGACACCATTGAACGCTGTCTGAAGATTGCAGTCTGAGCATCTTAGCTAAATCAGTTAAAACTTTCAACAA CGGATCTCTTGGTTCCGGCATCGATGAAGAACGCAGCGAAATGCGATACGTAATGTGAATTGCAGAATTCAGT GAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTGGTATTCCGGGGGGCATGCCTGTCCGAGCGTCATTGC TGCCCTCAAGCACGGCTTGTGTGTTGGGCCTCCGCCCCCCGGCTCCCGGGGGGCGGGCCCGAAAGGCAGCGG CGGCACCGCGTCCGGTCCTCGAGCGTATGGGGCTTCGTCACCCGCTCCGTAGGCCCGGCCGGCGCCCGCCGG CGACCCCCCTCAATCTTTCCAGGTTGACCTCGGATCAGT

>221.1 cynuni *Penicillium* B 1b(44)/3b(4)

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>217.1 cynfle *Penicillium* B 2b(11)(13)(19)(21)/4c(11) consensus

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GTCCGGTCCTCGAGCGTATGGGGCTTTGTCACCCGCTCTGTAGGCCCGGCCGGCGCTTGCCGATCAACCAAAC TTTTATCCAGGTTGACCTCGGATCA

>222.1.6d(12) cynhyb *Penicillium* A

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>220.1.3d(1) cynspe *Penicillium* A

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>221.1.1b(29) cynuni *Penicillium* A

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>57.3.1c cyngra *Exophiala* (1)(2) consensus

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>217.1.5b(3) cynfle *Cladophialophora*

GTTTCCGTAGGTGAACCTGCGGAAGGATCATTAACGAGTTAGGGTCTTCTCAGGCCCGACCTCCCAACCCTTT GTTTACTGAACCTCTGTTGCTTCGGCGGGCCCGTCTCACGACCGCCGGAGGACCGCCGACAGGTGTCCTCTGG CCCGTGTCCGCCGACAGCCAACCTCTCAAAATTCTGTATGAATCGTGTCCTTTATCTCTAAGTCTATGATTTAAA CAAATCAAAAGCAAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGAT AAGTAATGCGAATTGCAGAATTCCAGTGAGTCATCGAATCTTTGAACGCACATTGCGCCCTTTGGTATTCCGAA

GGGCATGCCTGTTCGAGCGTCATTATCACCCCTCAAGCCCCCGGCTTGGTGTTGGACGGCTTGGTTGACCGCA ATGTCGACCCCTCCTAAAGACAATGACAGCGCCCCGCGGCACCCCCGGTACACTGAGCTTTTCATCGAGCACG TATCGGACAAGGGTCCCCGGGACACGGTCTCTCTTTCCCACGCATCGCGGGAACATTTTTTCTGAAAGGTTGA CCTCGGATCA

>57.2.1c(2) cyngra *Exophiala*

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>56.1.6b(2) cynrid *Exophiala*

CCATTGTTTATGATACCTAGTGTTGCTTCGGTAGGCCTGGTCTATCTGTTATAGACCTGCCGGGGGGCCGTAA GACGCCCGCCGGAGAGTGCCTACCGACAGCCTCAACTCCAAAATTCTTTAACCAAACGTGTCTTTGTCTGAGTA ACGTCTTTTAAAATAAAGCAAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAA ATGCGATAAGTAATGCGAATTGCAGAATTCTCGTGAGTCATCGAATCTTTGAACGCACATTGCGCCCTTTGGTA TTCCGAAGGGCATGCCTGTTCGAGCGTCATTTTCACCCCTCAAGCCCCCGGCTTGGTGTTGGACGGTCTGGTCC GGGGACCTCAAACCCCCTGGACCCCTCCCAAAGACAATGACGGCGGGCTGTTGAACCCCCGGTACACTGAGC ATCTTCACGGAGCACGTACCGGTCTCAAGGGTCGACGGCACCCGGT

>56.1.4b(1) cynrid *Mollisia* A (1)(6) consensus

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>56. cynrid Helotiales(MollisiaA?) 1.4b(3)/1.5c(4)/2.4a(7) consensus

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tttttaaggtt

>57.3.1c(11) cyngra Acephala (Phialocephala A) 2.4b(15)/3.1c(11) consensus

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>222.1.1g(6) cynhyb *Phialocephala* C

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>56.1.6b(20) cynrid *Phialocephala* A

CCCACCCGTGTCTATCTACTCTTGTTGCTTTGGCAGGCCGTGGCCTCCACCGCGGGCTCTGCCTGCGTGTGCCT GCCAGAGGACCAAACTCTGAATTTTAGTGATGTCTGAGTACTATATAATAGTTAAAAACTTTCAACAACGGATC TCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCA TCGAATCTTTGAACGCACATTGCGCCCGGTGGTATTCCGCCGGGCATGCCTGTTCGAGCGTCATTATAACCACT CAAGCCTGGCTTGGTATTGGGGTTCGCGGTTTCCGCGGCCCCTAAAATCAGTGGCGGTG

>73.1.5b(14) cynpap *Phialocephala* B

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>71.1.1b(2) cyngib *Arcopilus* A1

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>222.1.1g cynhyb *Arcopilus* A2 (2)(7)(8) consensus

CAGCGGAGGGATCATTACAGAGTTGCAAAACTCCCTAAACCATTGTGGACGCTACCTTTTAACGTTGCTTCGGC GGGCGGCCCGCTCCCCTGGAAAGCCCCTGTGGCCGCCCGGGGCTGCGAGCCCCCCGGCCCCCCTCGCGGGG GCGCCCGCCGGAGGATACCCAACTCTTGATTATTTTAGGCCTCTCTGAGTCTTCTGTACTGAATAAGTCAAAAC

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>56.1.6b(3) cynrid *Arcopilus* B

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>57.2.2e(9) cyngra *Dichotomopilus*

CCAAACCATCGTGAACGTTACCTATATCGTTGCTTCGGCGGGTGGCTCGGCCTCGGCCCTGCCCTAGGCCCCTC TCGGGGGCCCGCCGGAGGTCTACCAAACTCTTGAACTTATATGGCCTCTCTGAGTCTTCTGTACTGAATAAGTC AAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAA TTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCGCCAGTATTCTGGCGGGCATGCCTGTC CGAGCGTCATTTCAACCATCAAGCCCCCGGCTTGTGTTGGGGACCTGCGGCACACCCGCAGGCCCTGAAAACC AGTGGCGGGCTCGCTGTCCACACCGAGCGTAGTAGCATATCTTTGTCTCGCTCAGGGCGTGCGGCGGGCCCC GGCCGTGAAACCCACCTTCTCGAAGGTACCCAAAGGTTGACCTCG

>57.2.4b(13) cyngra *Chaetomium* A

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>217.1.1f(3) cynfle *Chaetomium* B1

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>217.1.5b cynfle *Chaetomium* B2 (6)(9)(10) consensus

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>217.1 cynfle *Chrysanthotrichum* 2b(7)(16)(18)/4b(1) consensus

GTGAACCAGCGGAGGGATCATTAAAGAGTTGCAAAACTCCCAAACCATTGTGGACCTACCTTACAACCGTTGC TTCGGCGGGCGGCGCCGCCCCGGGGGGAGACCCCCGCGGCGCGCCCCTCGGCCCCTCACCGGGCGCCCGCC GGAGGTACCTAACCCTTTACGCATGTATGGCCTCTCTGAGTCTTCTGTACTGAATAAGTCAAAACTTTCAACAA CGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGT GAATCATCGAATCTTTGAACGCACATTGCGCCCGCCAGCATTCTGGCGGGCATGCCTGTCCGAGCGTCATTTC AACCATCAAGCCCCCGGGCTTGTGCTGGGGACCTGCGGCTGCCCGCAGGCCCTGAAAACCAGTGGCGGGCTC GCTGTCACCCCGAGCGTAGTAGCATAACCTCGCTTAGGGCGTGCCGCGGGCTCCCGCCGTAAAACCCCCAAAA CACCAAAGGTTGACCTCGGATCAG

>56.2.1c(1) cynrid *Colletotrichum*

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>222.1.1k(15) cynhyb *Pestalotiopsis* A

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>56.2.2c(4) cynrid/57.3.1c(7) cyngra *Pestalotiopsis* B

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>222.1. cynhyb *Coniella* A consensus 1b(4)/3d(27)(28)/4c(34)(36)(38)/6d(1)

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>201.5.wp(25) cynfas *Coniella* B

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>222.1.1b cynhyb *Coniochaeta* (3)(4) consensus

GAACCAGCGGAGGGATCATTATTAGAAGCCGAAAGGCTACTTAAAACCATCGCGAACTCGTCCAAGTTGCTTC GGCGGCGCGGCCTCCCTCACGGGGGCGCCGCAGCCCCGCCTCTCCGGAGGTGTGGGGCGCCCGCCGGAGGT ACGAAACTCTGTATTATAGTGGCATCTCTGAGTAAAAAACAAATAAGTTAAAACTTTCAACAACGGATCTCTTG GTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGA ATCTTTGAACGCACATTGCGCCCGCTAGTACTCTAGCGGGCATGCCTGTTCGAGCGTCATTTCAACCCTCAAGC CCTGCTTGGTGTTGGGGCCCTACGGCTGCCGTAGGCCCTGAAAGGAAGTGGCGGGCTCGCTACAACTCCGAG CGTAGTAATTCATTATCTCGCTAGGGACGTTGCGGCGCGCTCCTGCCGTTAAAGACCATCTTTAACTCAA

>221.1.4b(16) cynuni *Pseudophialophora*

AGGGATCATTATCGAGTTGCAAAACTCCAACCCCATGTGAACATACCTCAGTCGTTGCTTCGGCGGTTTAGCCC CTAAAAAGGGCCCAAAGCCGCCGGAGGTTCCAAACTCTTGTTTTTATCAGTGTATCTTCTGAGCTTTAAAACAA ATAATCAAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAA TGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCGCCGGTATTCCGGCGGGCAT GCCTGTTCGAGCGTCATTTCAACCCTCAAGCCCAGCTTGGTGTTGGGGCGCCCGGCCGCCTGGCGGTCCGGG GCCCTCAAGTGTATCGGCGGTCTCGTCGGGACTCTGAGCGCAGTAACTCGCGGTAAAACGCGCCTCGCTTGGT CTGTCTCCGGCGGGCTCCGGCCGCTAAACCCCC

>217.1.1f(2) cynfle *Fusarium*

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>56. cynrid *Fusarium* 1.6b(16)/2.1c(8)(9)/2.4a(6) consensus

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>56.2.2c(2) cynrid/57.2.4b(5) cyngra *Myrothecium* consensus

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>56.1.6b(22) cynrid *Metarhizium* A1

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>73.1.5b(7) cynpap *Metarhizium* A2

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>58.1.1d(4) cynrid Sordariomycetes A

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>222.1.1k(12) cynhyb SordariomycetesB

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>57.3.1c(10) cyngra SordariumycetesC (4)(5)(8)(10) consensus

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>56.1.6b(23) cynrid Hypocreales

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>57.3.1c(3) cyngra *Acremonium persicinum*

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>56.2.2c(1) cynrid Neocosmospora Fusarium neocosmosporiellum

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>56.1.1b(2) cynrid *Purpureocillium*

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CATCGAATCTTTGAACGCACATTGCGCCCGCCAGCATTCTGGCGGGCATGCCTGTTCGAGCGTCATTTCAACCC TCGAGCCCCCCCGGGGGCCTCGGTGTTGGGGGACGGCACACCAGCCGCCCCCGAAATGCAGTGGCGACCCC GCCGCAGCCTCCCCTGCGTAGTAGCACACACCTCGCACCGGAGCGCGGAGGCGGTCACGCCGTAAAACGCCC AACTTTCTTAGAGTTGACCT

>217.1.4c(4) cynfle *Penicillifer*

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>222.1.1b(28) cynhyb *Trichoderma longibrachiatum* A

AGGGATCATTACCGAGTTTACAACTCCCACACCCCAATGTGAACGTTACCAATCTGTTGCCTCGGCGGGATTCT CTTGCCCCGGGCGCGTCGCAGCCCCGGATCCCATGGCGCCCGCCGGAGGACCAACTCCAAACTCTTTTTTCTCT CCGTCGCGGCTCCCGTCGCGGCTCTGTTTTATTTTTGCTCTGAGCCTTTCTCGGCGACCCTAGCGGGCGTCTCG AAAATGAATCAAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAA GTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCGCCAGTATTCTGGCGG GCATGCCTGTCCGAGCGTCATTTCAACCCTCGAACCCCTCCGGGGGGTCGGCGTTGGGGATCGGCCCCTCACC GGGCCGCCCCCGAAATACAGTGGCGGTCTCGCCGCAGCCTCTCCTGCGCAGTAGTTTGCACACTCGCACCGGG AGCGCGGCGCGGCCACAGCCGTAAAACACCCCAAACTTCTGAAATGTTGACCTCG

>77.1.2c(1) cynspe *Trichoderma longibrachiatum*/*orientale* A 2b(5)(13)/2c(1)

TGGTGAACCAGCGGAAGGGATCATTACCGAGTTTACAACTCCCAAACCCCAATGTGAACGTTACCAATCTGTT GCCTCGGCGGGATTCTCTTGCCCCGGGCGCGTCGCAGCCCCGGATCCCATGGCGCCCGCCGGAGGACCAACT CCAAACTCTTTTCTCTCTCCGTCGCGGCTCCCGTCGCGGCTCTGTTTTATTTTTGCTCTGAGCCTTTCTCGGCGAC CCTAGCGGGCGTCTCGAAAATGAATCAAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACG CAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCC GCCAGTATTCTGGCGGGCATGCCTGTCCGAGCGTCATTTCAACCCTCGAACCCCTCCGGGGGGTCGGCGTTGG GGATCGGCCCCTCACCGGGCCGCCCCCGAAATACAGTGGCGGTCTCGCCGCAGCCTCTCATGCGCAGTAGTTT GCACACTCGCACCGGGAGCGCGGCGCGGCCACAGCCGTAAAACACCCCAAATTTTCTGAAATGTTGACCTCG GATCAGGTAG

>71.1.1b(1)/67.1.1a(12)(13) cyngib *Trichoderma* B consensus

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>217.1.1c(12)/2b(9)cynfle/221.1.1b(52)/4b(36)cynuni *Trichoderma* C1 consensus

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>222.1 cynhyb *Trichoderma* C2 1b(16)/1k(5)

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>201 cynfas *Trichoderma* D 2.wp(1)/5.wp(44)

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>222.1.3d cynhyb *Neopestalotiopsis* A1 consensus (6)(44)

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>77.1.2d cynspe *Neopestalotiopsis* A2 consensus (1)(3)

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>57.2.2e cyngra *Nigrospora* 1 (4)(5) consensus

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TGACCTCGGATCAG

>56.2.2c(7) cynrid *Nigrospora* 1

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>56.1.2b(9) cynrid *Nigrospora* 2

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> 77.1.2b(3) cynspe *Xylaria*

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> 77.1.2b(12) cynspe *Xylaria feejeensis*

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> 77.1.2d(4) *cynspe Xylaria curta*

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>201.2.wp(9) cynfas *Anthostomella*

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