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L_sublurida_USF300104 ATTATCGAACTTTGAGAGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACCATTTGTAGATCCTCGAAA-GAGG-ATCTAT-GTTTCT-TTTCACATCACAATGTCTACAGAATGTAAATCATAAAACTTTAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTTTCAGTGAATCATCGAATCTTTGAACGCACCTTGCCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAATCATGCCATGGCTTGGAAC-TGGGAGGCTCTCCTGAAATGCATTAGCAGCGGGGCCGTGCACGGCCTTGACGTGATAATGATCGTTGTGGCTGGAGTGT [388]

C_abieticola_Ferrusca390 ATTATCGAACTCGGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CACTGTAGGTCCTCGAAA-GAGG-ATCTAC-GTTTTT-CACACACCCTCGATGTCCATAGAATGTAAATCATACAACCTTTAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTTTCAGTGAATCATCGAATCTTTGAACGCACCTTGCCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATGCCATGGCTTGGAAC-TGGGAGGCTCTCCTGAAATGCATTGGCAAGGGTGGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_abieticola_ICTV1128 ????????????GGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CACTGTAGGTCCTCGAAA-GAGG-ATCTAC-GTTTTT-CACACACCCTCGATGTCCATAGAATGTAAATCATACAACCTTTAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTTTCAGTGAATCATCGAATCTTTGAACGCACCTTGCCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATGCCATGGCTTGGAAC-TGGGAGGCTCTCCTGAAATGCATTGACAAGGGTGGCGTGCACGGCCTTGATGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_abieticola_ITCV1129 ATTATCGAACTCGGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CACTGTAGGTCCTCGAAA-GAGG-ATCTAC-GTTTTT-CACACACCCTCGATGTCCATAGAATGTAAATCATACAACCTTTAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTTTCAGTGAATCATCGAATCTTTGAACGCACCTTGCCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATGCCATGGCTTGGAAC-TGGGAGGCTCTCCTGAAATGCATTGGCAAGGGTGGCGTGCACGGCCTTGATGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_abieticola_ITCV1141 ?????????????GTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CACTGTAGGTCCTCGAAA-GAGG-ATCTAC-GTTTTT-
CACACACCCTCGATGTCCATAGAATGTAAATCATACAACCTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTT
TCAGTGAATCATCGAATCTTTGAACGCACCTTGCGCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATGCCATGGCTTGGACTTTGGGAGGCTCT
CCTGAAATGCATTGGCAAGGGTGGCGTGCACGGCCTTGATGTGATAATGATCGTCGTGGCTGGAGCGT [371]

C_abieticola_MEXU26275 ATTATCGAACTCGGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CACTGTAGGTCCTCGAAA-GAGG-ATCTAC-GTTTTT-
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TCAGTGAATCATCGAATCTTTGAACGCACCTTGCGCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATGCCATGGCTTGGACTTTGGGAGGCTCT
CCTGAAATGCATTGGCAAGGGTGGCGTGCACGGCCTT???????????????????????????????? [388]

C_abieticola_MEXU26276 ATTATCGAACTCGGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CACTGTAGGTCCTCGAAA-GAGG-ATCTAC-GTTTTT-
CACACACCCTCGATGTCCATAGAATGTAAATCATACAACCTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTT
TCAGTGAATCATCGAATCTTTGAACGCACCTTGCGCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATGCCATGGCTTGGACTTTGGGAGGCTCT
CCTGAAATGCATTGGCAAGGGTGGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_abieticola_MEXU26278 ATTATCGAACTCGGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CACTGTAGGTCCTCGAAA-GAGG-ATCTAC-GTTTTT-
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TCAGTGAATCATCGAATCTTTGAACGCACCTTGCGCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATGCCATGGCTTGGARTTTGGGAGGCTCT
CCTGAAATGCATTGGCAAGGGKGG?? [388]

C_bessettei_USF301500A ATTATTGAATTCGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-TATTGTAGGCCCTCGAAAAGAGGGACCTAT-
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C_bessettei_USF301500B ATTATTGAATTCGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-TATTGTAGGCCCTCGAAAAGAGGGACCTAT-
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C_cyaneitinctus_USF288424 ?????????????CGGAAGGATGGGGAAGGCTGTGCACCTGTGCACC-CATTGTAGGCCCTCGAAA-GAGG-ATCTAC-GTATTT-
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CCTGAAATGCATTAGCGAGGGTGGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_cyaneitinctus_USF301499 ??????????????GCGGAAGGATGGGGAAGGCTGTCGACCTGTGCACC-CATTGTAGGCCCTCGAAA-GAGG-ATCTAC-GTATTT-
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CCTGAAATGCATTAGCGAGGGTGGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_cyaneitinctus_JAB184 ??????????????GCGGAAGGATGGGGAAGGCTGTCGACCTGTGCACC-CATTGTAGGCCCTCGAAA-GAGG-ATCTAC-GTATTT-
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C_cyaneitinctus_JAB324 ??????????????GCGGAAGGATGGGGAAGGCTGTCGACCTGTGCACC-CATTGTAGGCCCTCGAAA-GAGG-ATCTAC-GTATTT-
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C_cyaneitinctus_JAB325 ??????????????GCGGAAGGATGGGGAAGGCTGTCGACCTGTGCACC-CATTGTAGGCCCTCGAAA-GAGG-ATCTAC-GTATTT-
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C_hymenoglutinosus_AB2016 ATTATCGAACTTTGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CTTTGTAGGCCCTCGAAA-GAGG-ATCTAT-GTATTT-
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C_instabilis_FHMU1839
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TTTGGGAGGCTCTCCTGAAATGCATTAGCAAGGATGGCGTGCACGGCCTTGGCATGATAATCATCGTCGTGGTTGGAGCGT [392]

C_macroporus_DC2102 ATTATCGAACTTTGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CTTCGTAGGCCCTCGAAA-GAGG-ATCTATNGTATTT-CATACAACACCCCATGTCCATAGAATGTAAATCATACAACCTTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTTTCAGTGAATCATCGAATCTTTGAACGCACCTTGCGCTCCTCGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATGTCATGGCTTGGAATTTGGGAGGCTCTCCTGAAATGCATTAGCGAGGGTGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [389]

C_macroporus_DC2104 ATTATCGAACTTTGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CTTCGTAGGCCCTCGAAA-GAGG-ATCTATNGTATTT-CATACAACACCCCATGTCCATAGAATGTAAATCATACAACCTTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTTTCAGTGAATCATCGAATCTTTGAACGCACCTTGCGCTCCTCGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATGTCATGGCTTGGAATTTGGGAGGCTCTCCTGAAATGCATTAGCGAGGGTGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [389]

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C_mediterraneensis_TURA209199 ???ACCTGTGCACT-CATTGTAGGCCCTCGAAA-GAGG-ATCTAC-GTTTTT-CACATCACACCCCATGTCCATAGAATGTAAATCATACAACCTTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTTTCAGTGAATCATCGAATCTTTGAACGCACCTTGCGCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATCGAATTCTCAACCATKCCATGGCTTGGAATTTGGGAGGCTCTCTGAAATGCATTAGCAAGGGTGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_poikilochromus_GS10070 ATTATCGAATTTGAGGGACTGTCGCTGCATGTGCACGTCTACCTGTGCACC-CTTTGTAGGCCCTCGAAA-GAGG-ATCTAT-GTTTTT-CACATCACACCCCATGTCCATAGAATGTAAATCATACAACCTTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTTTCAGTGAATCATCGAATCTTTGAACGCACCTTGCGCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTTATCGAATTCTCAACCATGCCATGGCTTGGAATTTGGGAGGCTCTCCTTAAATGCATTAGCAAGGGTGCGTGCACGGCCTTGACGTGATAATGATCGTTGTGGCTGGAGCGT [387]

C_poikilochromus_GS11008 ATTATCGAATTTGAGGGACTGTCGCTGCATGTGCACGTCTACCTGTGCACC-CTTTGTAGGCCCTCGAAA-GAGG-ATCTAT-GTTTTT-CACATCACACCCCATGTCCATAGAATGTAAATCATACAACCTTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTTTCAGTGAATCATCGAATCTTTGAACGCACCTTGCGCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTTATCGAATTCTCAACCATGCCATGGCTTGGAATTTGGGAGGCTCTCCTTAAATGCATTAGCAAGGGTGCGTGCACGGCCTTGACGTGATAATGATCGTTGTGGCTGGAGCGT [387]

C_poikilochromus_TOHG10091987 ?????????????????????????????????????GCATGTGCACGTCTACCTGTGCACC-CTTTGTAGGCCCTCGAAA-GAGG-ATCTAT-GTTTTT-CACATCACACCCCATGTCCATAGAATGTAAATCATACAACCTTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTT

TCAGTGAATCATCGAATCTTTGAACGCACCTTGCCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTATCGAATTCT-AACCATGCCATGGCTTGGAGTT-
GGGAGGCTCTCCTTAAATGCATTAGCAAGGGTGGCGTGCACGGCCTTGACGTGATAATGATCGTTGTGGCTGGAGCGT [386]

C_pulverulentus_MG126a ATTATCGAACTTCGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CATTGTAGGCTCTCGAAA-GAGG-ATCTAC-GTATTT-
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TCAGTGAATCATCGAATCTTTGAACGCACCTTGCCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTCAACGAATTCTCAACCATGCCATGGCTTGGACTTTGGGAGGCTCT
CCTGAAATGCATTAGCGAGGGTGGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_pulverulentus_MG456a ATTATCGAACTTTGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CATTGTAGGCTCTCGAAA-GAGG-ATCTAC-GTATTT-
CATACAACACCCATGTCCATAGAATGTAAATCATACAACCTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTT
TCAGTGAATCATCGAATCTTTGAACGCACCTTGCCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTCAACGAATTCTCAACCATGCCATGGCTTGGACTTTGGGAGGCTCT
CCTGAAATGCATTAGCGAGGGTGGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_pulverulentus_MG628a ATTATCGAACTTTGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CATTGTAGGCTCTCGAAA-GAGG-ATCTAC-GTATTT-
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TCAGTGAATCATCGAATCTTTGAACGCACCTTGCCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTCAACGAATTCTCAACCATGCCATGGCTTGGACTTTGGGAGGCTCT
CCTGAAATGCATTAGCGAGGGTGGCGTGCACGGCCTTGACGTGATAATGATCGTCGTGGCTGGAGCGT [388]

C_sinopulverulentus_HMAS266894 ATTATAGAACTTTGAGGGTCGCTGGCTGCATGTGCACGTCTACCTGTGCACC-CTTTGTAGGCCCTCGAAA-GAGG-ATCTAC-GTATTT-
CATACAACACCCATGTCCATAGAATGTAAATCATACAACCTTCAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGCAGCGAATTGCGATAAGTAATGTGAATTGCAGATTT
TCAGTGAATCATCGAATCTTTGAACGCACCTTGCCTCCTCGGTATTCCGAGGAGCATGCCTGTTTGAGTGTCAACGAATTCTCAACCATGCCATGGCTTGGACTTTGGGAGGCTCT
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matrix

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TGGGTGGTAAATTCCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTTGGGTGGCAAACCTCGAGC
GCGCAATGAAAGTGAAAGTTGAGACCTCTGTCATGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACGACGGATCTGCGGTA
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L_sublurida_USF300104

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TGGGTGGTAAATTCCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTTGGGTGGCAAACCTCGAGC
GCGCAATGAAAGTGAAAGTTGAGACCTCTGTCATGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACATATGCCTGAATAGGGTGAAGCCAGAGGAAACTCTG [726]

C_abieticola_Ferrusca390

GCCGTCCGAGTTGTAATCTAGAGAAGCGTTTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
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CGGGTGGTAAATTCCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTTGGGTGGCAAACCCAAGC
GCGAAATGAAAGTGAAAGTCGAGACCTCTGTCGTGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACGACGGATCTGCGGTA
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C_abieticola_ITCV1010

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CGGGTGGTAAATTCCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
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GCGAAATGAAAGTGAAAGTCGAGACCTCTGTCGTGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACGACGGATCTGCGGTA
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C_abieticola_ITCV1128

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C_abieticola_ITCV1129

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GCGAAATGAAAGTGAAAGTCGAGACCTCTGTCGTGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACGACGGATCTGCGGTA
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C_abieticola_ITCV1141

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-CTTCCGCTGGG--TGTACTTCCCGGTCGACGGGTCAGCATCGGTTTCGGTCGCCGTACAATGGCGAGGGGAATGTGGCACCC
TTYGGGTGTGTTATAGCCTTTCGTCGTATGCGGTGG-TCGGGACCGAGGAACTCGGCACGGCGGTCTGTGCTTAGGATGCTGG
CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTGGGTGGCAAACCCAAGC
GCGAAATGAAAGTGAAAGTCGAGACCTCTGTCGTGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGTATGTTGGGACCCGAAAGATGGTGAAGTATGCCTGAATAGGGTGAAGCCAGAGGAACTCTG [727]

C_bessettei_USF301500A

GCTGTCCGAGTTGTAATCTAGAGAAGTGTTTTCCGCGCTGG-ACCGTGTATAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
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TGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGGAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCACGTCGGCTGGGGATCAACCCTTG
-CTTT-GCTGGG--TGTACTTCTTGTCGATGGGTGAGCATCAGTTTCGGTCGCCGTACAAGGGCAAAGGGAACGTGGCACTC
TTAGAGTGTGTTATAGCCTTTCGTCGTATGCGGTGGGTGGGACTGAGGAACTCAGCATGGCGCT-TGTGCTTAGGATGCTGG
CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTGGGTGGCAAACCCGAGC
GCGTAATGAAAGTGAAAGTTGAGACCTCTGTCGTGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGTATGTTGGGACCCGAAAGATGGTGAAGTATGCCTGAATAGGGTGAAGCCAGAGGAACTCTG [726]

C_brunneoruber_HKAS63504

GTCGTCCGAGTTGTAATCTAGAGAAGCGTCTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
AGAATCCCGTCTTTGACACGGACTACCA-GTGCTATGTGATGCGCTCTCGACGAGTCGAGTTGTTTGGGAATGCAGCTCAAAT
TGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGGAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCGCGTTGTCCGGGGATCAACC-TTG
-CTTCTGCTGGG--TGTACTTCCCGGTAGACGGGTCAGCATCGGTTTTGGTCGCCGTATAATGGCGAGAGGAATGTGGCACCC
TTCGGGTGTGTTATAGCCTTTCGTCGATGCGGTGG-TCAGGACCGAGGAACTCAGCACGACGGTCTGTGCTCAGGATGCTGG
CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTGGGTGGCAAACCTCGTGC
GCGTAATGAAAGTGAAAGTCGAGACCTCCGTCGTGGAGGGCATCGACGCCCCGACTTGAGTCTTTGACGATGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAAGTATGCCTGAATAGGGTGAAGCCAGAGGAACTCTG [726]

C_brunneoruber_HKAS805791

GTCGTCCGAGTTGTAATCTAGAGAAGCGTCTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
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TGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGGAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCGCGTCGTCCGGGGATCAACC-TTG

-CTTCTGCTGGG--TGTA CTTCCCGGTAGACGGGTCAGCATCGGTTTTGGTCGCCGTATAATGGCGAGAGGAATGTGGCACCC
TTCGGGTGTGTTATAGCCTTTTCGTCGCATGCGGTGG-TCAGGACCGAGGAACCTCAGCACGACGGTCTGTGCTCAGGATGCTGG
CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTCCGGGTGGCAAACCTCGTGC
GCGTAATGAAAGTGAAAGTCGAGACCTCCGTCGTGGAGGGGCATCGACGCCCCGACTTGAGTCTTTGACGATGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAAACCTCTG [726]

C_brunneoruber_HKAS805792

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TGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
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-CTTCTGCTGGG--TGTA CTTCCCGGTAGACGGGTCAGCATCGGTTTTGGTCGCCGTATAATGGCGAGAGGAATGTGGCACCC
TTCGGGTGTGTTATAGCCTTTTCGTCGCATGCGGTGG-TCAGGACCGAGGAACCTCAGCACGACGGTCTGTGCTCAGGATGCTGG
CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTCCGGGTGGCAAACCTCGTGC
GCGTAATGAAAGTGAAAGTCGAGACCTCCGTCGTGGAGGGGCATCGACGCCCCGACTTGAGTCTTTGACGATGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAG????????? [726]

C_cyaneitinctus_USF288424

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CGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGAAAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCGCGTCGTCCGGGGATCAACC-TTG
-CTTCCGCTGGG--TGTA CTTCCCGGTAGACGGGTCAGCATCGGTCTCGGTGCGCGTACAATGGCGAGAGGAACGTGGCACCC
TTCGGGTGTGTTATAGCCTTTTCGTCGCATGCGGCGG-TCGGGACCGAGGAACCTCAGCACGACGGTCTGTGCTTAGGATGCTGG
CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTCCGGGTGGCAAACCTCGTGC
GCGTAATGAAAGTGAAAGTCGAGACCTCTATCATGGAGGGCACCGACGCCCCGACTTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAAACCTCTG [727]

C_cyaneitinctus_USF301499

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AGAATCCCGTCTTTGACACGGACTACCAAGTGCTATGTGATGCGCTCTCGACGAGTCGAGTTGTTTGGGAATGCAGCTCAAAT
CGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGAAAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCGCGTCGTCCGGGGATCAACC-TTG
-CTTCCGCTGGG--TGTA CTTCCCGGTAGACGGGTCAGCATCGGTCTCGGTGCGCGTACAATGGCGAGAGGAACGTGGCACCC
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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTCCGGGTGGCAAACCTCGTGC
GCGTAATGAAAGTGAAAGTCGAGACCTCTATCATGGAGGGCACCGACGCCCCGACTTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAAACCTCTG [727]

C_cyaneitinctus_JAB184

GCCGTCCGAGTTGTAATCTAGAGAAGCGTCTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
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CGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGAAAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCGCGTCGTCCGGGGATCAACC-TTG
-CTTCCGCTGGG--TGTA CTTCCCGGTAGACGGGTCAGCATCGGTCTCGGTGCGCGTACAATGGCGAGAGGAACGTGGCACCC
TTCGGGTGTGTTATAGCCTTTTCGTCGCATGCGGCGG-TCGGGACCGAGGAACCTCAGCACGACGGTCTGTGCTTAGGATGCTGG
CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTCCGGGTGGCAAACCTCGTGC
GCGTAATGAAAGTGAAAGTCGAGACCTCTATCATGGAGGGCACCGACGCCCCGACTTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAAACCTCTG [727]

C_cyaneitinctus_JAB324

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CGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGAAAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCGCGTCGTCCGGGGATCAACC-TTG

-CTTCCGCTGGG--TGTACTTCCCGGTAGACGGGTCAGCATCGGTCTCGGTCGCCGTACAATGGCGAGAGGAACGTGGCACCC
TTCGGGTGTGTTATAGCCTTTTCGTCGTATGCGGCGG-TCGGGACCGAGGAACTCAGCACGACGGTCTGTGCTTAGGATGCTGG
CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTCCGGGTGGCAAACCTCGTGC
GCGTAATGAAAGTGAAAGTCGAGACCTCTATCATGGAGGGCACCGACGCCCGGACTTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAAACTCTG [728]

C_hymenoglutinosus_AB2016

??GGAAGGGAGCGTCATAGAGGGGG
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CGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGGAAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCGCGTCGTCCGGGGATCAACC-TTG
-CTTCCGCTGGG--TGTACTTCCCGGTAGACGGGTCAGCATCGGTTTCGGTCGCCGTACAATGGCGAGAGGAACGTGGCACCC
TTCGGGTGTGTTATAGCCTTTTCGTCGTATGCGGCGG-TCGGGACCGAGGAACTCGGCACGACGGTTTGTGCTCAGGATGCTGG
CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTCCGGGTGCTAAACTCGTGC
GCGTAATGAAAGTGAAAGTCGAGACCTCCGTCTATGGAGGGCATCGACGCCCGGACTTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAAACTCTG [727]

C_instabilis_FHMU1839

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CGGGTGGTAAATTCATCTAAAGCTAAATATGGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGAAAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCGCGTCGGCTGGGGATCAACCCTCG
GCTTTCGCCGGGAGTGATTTCCCTGTTGACGGGTGAGCATCGGTTTCGGTCGCCGTACAATGGTGAGGGGAACGTGGCACTC
TTCGGGTGTGTTATAGTCTTTTCATCGTATGCGGCGT-TCGGGACCGAGGAACTCAGCACGGCGGTCTGTGCTTAGGATG????
??
??
?? [731]

C_instabilis_HKAS59554

ACCGTCCGAGTTGTAATCTAGAGAAGCGTTTTCCGCGCTGG-ACCGTGTATAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
AGAATCCCGTCTTTGACACGGACGACCA-GGGCTATGTGATGCGCTCTCGACGAGTCGAGTTGTTTGGGAATGCAGCTCAAAA
CGGGTGGTAAATTCATCTAAAGCTAAATATGGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
TTGAAAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGATGTCAGTCGCGTCGGCTGGGGATCAACCCTCG
GCTTTCGCCGGGGGTGATTTCCCTGTTGACGGGTGAGCATCGGTTTCGGTCGCCGTACAATGGTGAGGGGAACGTGGCACTC
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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTCCGGGTGGCAAACCCGAGC
GCGTAATGAAAGTGAAAGTTGAGACCTTCGTCTATGGAGGGCATCGACGCCCGGACCGGAGTCTTCGACGACGGATCTGCGGTA
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C_macropus_DC2102

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-CTTCCGCTGGG--TGTACTTCCCGGTAGACGGGTCAGCATCGGTTTCGGTCGTCGTACAATGGCGAGAGGAACGTGGCACCC
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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTCCGGGTGGCAAACCCGAGC
GCGTAATGAAAGTGAAAGTTGAGACCTTCGTCTATGGAGGGCATCGACGCCCGGACCGGAGTCTTCGACGACGGATCTGCGGTA
GAGCATGTATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAAACTCTG [727]

C_macropus_DC2104

GCCGTCCGAGTTGTAATCTAGAGAAGCGTCTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
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-CTTCCGCTGGG--TGACTTCCCGGTAGACGGGTCAGCATCGGTTTCGGTCGTCGTACAATGGCGAGAGGAACGTGGCACCC
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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTGGGTGTCAAACCTCGTGC
GCGTAATGAAAGTGAAAGTTGAGACCTCCGTCATGGAGGGCATCGACGCCCCGACTTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAACTCTG [727]

C_mediterraneensis_KM000265123

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CGGGTGGTAAATTCATCTAAAGCTAAATACAGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGAACT
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-CTTCCGCTGGG--TGACTTCCCGGTCTACGGGTGAGCATCGGTTTCGATCGCCGTACAATGGCGAGGGGAATGTGGCACCC
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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTTGGGTGGTAAACCCAGGC
GCGAAATGAAAGTGAAAGTTGAGACCTCTGTCGTGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAACTCTG [726]

C_mediterraneensis_TURA209199

GCCGTCCGAGTTGTAATCTAGAGAAGCGTTTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
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-CTTCCGCTGGG--TGACTTCCCGGTCTACGGGTGAGCATCGGTTTCGATCGCCGTACAATGGCGAGGGGAATGTGGCACCC
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GCGAAATGAAAGTGAAAGTTGAGACCTCTGTCGTGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAACTCTG [726]

C_paurianus_KD22008

GCCGTCCGAGTTGTAATCTAGAGAAGCGTCTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTTGGGTGCCAACTCGTGC
GCGTAATGAAAGTGAAATGTCGAGACCTCCGTCATGGAGGGCATCGACGCCCCGACTTGAGTCTTTGACGACGGATCTGCGGTA
GAGCATGCATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAACTCTG [726]

C_paurianus_KD22009

GCCGTCCGAGTTGTAATCTAGAGAAGCGTCTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCATAGAGGGTG
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C_poikilochromus_GS10070

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CATAATGGCCTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTGTTGGGTGGCAAACCCAAGC
GCGCAATGAAAGTGAAAGTCGAGACCTCTGTCGTGGAGGGCATCGACGCCCCGACCTGAGTCTTTGACAAAGGATCTGCGGTA
GAGCATGTATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAACTCTG [726]

C_poikilochromus_GS11008

GCCGTCCGAGTTGTAATCTAGAGAAGCGTTTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCGTAGAGGGTG
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GAGCATGTATGTTGGGACCCGAAAGATGGTGAACCTATGCCTGAATAGGGTGAAGCCAGAGGAACTCTG [726]

C_poikilochromus_TOHG100091987

GCCGTCCGAGTTGTAATCTAGAGAAGCGTTTTCCGCGCTGG-ACCGTGTACAAGTCTCCTGGAAGGGAGCGTCGTAGAGGGTG
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GAGCATGTATGTTGGGACCCGAAAGATGGTG?? [725]

C_pulverulentus_MG126a

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-CTTCCGCCGGG--TGTA CTCTCCCGGTAGACGGGTCAGCATCGGTTTCGGTCGCCGTACAATGGCGAGAGGAACGTGGCACCC
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GCGTAATGAAAGTGAAAGTCGAGACCTCCGTCATGGGGGGCACCAGCGCCCGACTTGAGTCTTTGACGACGGATCTGCGGTA
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C_pulverulentus_MG456a

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-CTTCCGCCGGG--TGTA CTCTCCCGGTAGACGGGTCAGCATCGGTTTCGGTCGCCGTACAATGGCGAGAGGAACGTGGCACCC
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C_pulverulentus_MG628a

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C_sinopulverulentus_HKAS59609

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Cyanoboletus_sp_HKAS76850

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END;

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C_bessettei_USF301500A
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C_bessettei_USF301500B

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C_brunneoruber_HKAS63504

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C_brunneoruber_HKAS805791

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C_brunneoruber_HKAS805792

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C_cyaneitinctus_USF288424

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C_cyaneitinctus_USF301499

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C_cyaneitinctus_JAB184

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C_cyaneitinctus_JAB324

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C_cyaneitinctus_JAB325

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C_instabilis_HKAS59554

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C_macroporus_DC2102

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C_macroporus_DC2104

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C_mediterraneensis_TURA209199

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C_paurianus_KD22008

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TTTGACGTCACCGCGAAACACCTA [680]

C_paurianus_KD22009

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CGATGATGGTGAAGAGTTCAAATGGGAGCAGCTGGTGAAGACAGGTATAATCGAATTATTGGATGCTGAGGAGGAGGAAACGG
TGATGATTTCCATGACACCAGAAGATTTGGAGAATTCCAGGCTACAATCTGCAGGCATCAACCCGCACGAGAACGATGGAGAT
TTTGACCCCGCGGCGCGACTAAAGGCTGGAATCAATGCGCACACATGGACTCACTGCGAGATCCATCCTAGTATGAT - TCTTG
GTGTTTGTGCCAGTATCATCCCTTTCCCGATCACAATCAGGTACGTGTTTCTTCGACATGGATTGAAAA - TGACCTTACACC
TTTGACAGTCACCGCGAAACACCTA [680]

C_poikilochromus_GS10070

GCTCCCGTCATTGAATTTTTGGAAGAATGGGGTCTCGAATCACTGGAAGAGAATGCACACTCGACAACGCCCTGCACGAAGGT
TTTCGTG - - AACGGTGT - CTGGATGGGCGTGATCGTGATCCAGCCAATCTTGTGAAGACGATCAAAAAGCTTCGC - - CGAA
AAGATGACATTAGTCCCGAAGTTTCTGTAGTTTCGCGATATTCGCGAGAGGGAGCTACGTCTCTACACAGACGCAGGGCGAGTT
TGTCGACCTCTCTTATTGTGCGAAAACCAGCAGCTTGCCCTGCAGAAGAAGCATATCAAGTGGCTTAACCAAGGCTACCGCGA
TGATGATGGCGAAGAGTTCAAGTGGGAACAGCTGGTGAAGACAGGGATAATCGAGTTATTGGATGCCGAGGAGGAGGAGACAG
TGATGATTTCCATGACACCTGAAGATTTGGAGAATTCCAGGCTACAATCTGCAGGCATCAACCCCCATGAGAATGATGGAGAT
TTTGACCCCGCAGCGCGACTAAAGGCTGGAATCAATGCGCACACATGGACTCACTGCGAGATTACCCTAGTATGAT - TCTTG
GTGCTGCGCCAGTATCATTCCTTTCCCGATCACAACCAGGTACGTACTCCTTCGACATGGATTGACAA - TGACCTTACACC
TTCGACAGTCACCACGAAACACCTA [680]

C_poikilochromus_GS11008

GCTCCCGTCATTGAATTTTTGGAAGAATGGGGTCTCGAATCACTGGAAGAGAATGCACACTCTTCAACGCCCTGCACGAAGGT
TTTCGTG - - AACGGTGT - CTGGATGGGCGTGATCGTGATCCAGCCAATCTTGTGAAGACGATCAAAAAGCTTCGC - - CGAA
AAGATGACATTAGTCCCGAAGTTTCTGTAGTTTCGCGATATTCGCGAGAGGGAGCTACGTCTCTACACAGACGCAGGGCGAGTT
TGTCGACCTCTCTTATTGTGCGAAAACCAGCAGCTTGCCCTGCAGAAGAAGCATATCAAGTGGCTTAACCAAGGCTACCGCGA
TGATGATGGCGAAGAGTTCAAGTGGGAACAGCTGGTGAAGACAGGGATAATCGAGTTATTGGATGCCGAGGAGGAGGAGACAG
TGATGATTTCCATGACACCTGAAGATTTGGAGAATTCCAGGTTACAATCTGCAGGCATCAACCCCCATGAGAATGATGGAGAT
TTTGACCCCGCAGCGCGACTAAAGGCTGGAATCAATGCGCACACATGGACTCACTGCGAGATTACCCTAGTATGAT - TCTTG
GTGCTGCGCCAGTATCATTCCTTTCCCGATCACAACCAGGTACGTACTCCTTCGACATGGATTGACAA - TGACCTTACACC
TTCGACAGTCACCACGA???????? [680]

C_pulverulentus_MG628a

GCTCCCGTCATCGAATTTTTGGAAGAATGGGGTCTTGAATCACTGGAAGAGAATGCGCATTTCATCAACGCCCTGCACGAAGGT
CTTCGTG - - AATGGTGT - CTGGATGGGCGTACATCGTGATCCCGCCAACCTTGTGAAGACGATCAAAAACTTCGC - - CGGA
AAGATGACATTAGTCCCGAAGTTTCTGTGGTTTCGTGATATTCGTGAGAGGGAGCTTCGTCTCTACACGGACGCAGGGCGAGTT
TGTCGACCCCTCTTATTGTTGAAAATCAGCAGCTTGCCCTGCAGAAGAAGCATATCAAATGGCTTAACCAGGGCTACCGCGA
CGATGATGGTGAAGAGTTCAAGTGGGAGCAGCTGGTGAAGACAGGGATAATCGAATTATTGGATGCTGAGGAGGAGGAAACAG
TGATGATTTCCATGACACCAGAAGATTTGGAGAATTCCAGGCTACAATCTGCAGGCATCAACCCGCACGAGAACGATGGTGAT
TTTGACCCCGCGGCGCGACTAAAGGCTGGAATCAATGCGCATACATGGACTCACTGCGAGATCCATCCTAGTATGAT - TCTTG
GTGTTTGTGCCAGTATCATTCCTTTCCCGATCACAATCAAGTACGTGTTACTTCGACATGGAATGATAA - TGCCCTTACACC
TTTGACAGTCACCGCGAAACACTTA [680]

C_sinopulverulentus_HKAS59609

GCTCCCGTCATCGAATTTTTGGAAGAATGGGGCCTTGAATCACTGGARGAGAATGCACATTTCATCAACGCCCTGCACGAAGGT
CTTCGTG - - AACGGTGT - CTGGATGGGCGTACATCGTGATCCCGCCAACCTTGTGAAGACGATCAAAAAGCTTCGC - - CGGA
AAGATGACATTAGTCCCGAAGTTTCTGTGGTTTCGTGATATTCGCGAGAGGGAGCTGCGTCTCTACACTGACGCAGGGCGAGTT
TGTCGACCTCTCTTATTGTTGAAAATCAGCAGCTTGCCCTGCAGAAGAAGCATATCAAATGGCTTAATCAGGGCTACCGCGA
CGATGATGGTGAAGAGTTCAAATGGGAGCAGCTGGTGAAGACAGGGATAATCGAATTATTGGATGCCGAGGAGGAGGAAACAG
TRATGATTTCTATGACACCAGAAGATTTGGAGAATTCCAGGCTACAATCTGCAGGCATCAACCCGCACGAGAACGACGGAGAY
TTTGACCCCGCGGCGCGACTAAAGGCTGGAATCAATGCRACACATGGACTCACTGCGAGATCCATCCTAGTATGAT - TCTTG
GTGTTTGTGCCAGTATCATTCCTTTCCCGATCACAATCAGGTACGTGATACTTCGACATGGAT - GAAAA - TGACCTTACACC
TTTGACAGTCACCGCGTAACACCTA [679]

Cyanoboletus_sp_HKAS76850

GCTCCTGTCATCGAATTCTTGGAGGAATGGGGTCTCGAATCGCTGGAAGAGAACGCACATTTCATCAACGCCCTGCACGAAAGT
TTTCGTG - - AATGGTGT - CTGGATGGGCGTGATCGTGATCCCGCCAACCTTGTGAAGACGATTAAAAAAGCTTCGC - - CGAA
AAGATGACATTAGTCCCGAAGTTTCTGTAGTTTCGTGATATTCGCGAGAGGGAGCTTCGTCTCTACACTGATGCAGGGCGAGTT
TGTCGACCTCTCTTATTGTGCGAAAATCAGCAGCTTGCCCTGCAGAAGAAGCATATCAAATGGCTTAACCAGGGGTACCGCGA

CGATGATGGAGAAGAGTTCAAGTGGGAGCAACTAGTAAAGACAGGGATAATTGAGTTATTGGATGCCGAGGAGGAGGAGACGG
TGATGATATCCATGACACCAGAAGACTTGGAAAAATTCAGATTACAATCTGCAGGCATCAACCCCCACGAGAATGATGGAGAT
TATGACCCTGCAGCACGACTAAAGGCTGGAATCGACGCGCACACATGGACCCACTGCGAGATCCATCCTAGTATGAT-TCTTG
GTGTCTGTGCTAGTATCATTCCCTTTCCCCGATCATAACCAGGCACGTACTGCCCTGACATGGATTTATAAATGACTTTACACC
TCTACAGTCACCCCGAAACA???? [681]

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end;