

Supplementary Materials: A Δ-9 Fatty Acid Desaturase Gene in the Microalga *Myrmecia incisa* Reisigl: Cloning and Functional Analysis

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ACGGGGGAGTGACAACACCAGCTGCCAACGAAACCTAGTATTCTTT
GTGCACAGCAAACGACTGCCTGTACGTGAAACGCATAGCCCCCTTC
TAAACTTCTCGACAGCCCCCATCTCTCAAGAACCCGGACAGTCACTGG
CAACCAGGGCAGATGAACCCGAGTGGGCTCACGATGCAGCTCAGCA
CCAGCCTGCAGGCAGCTGCCCAGAGTCCTACCTTCAGCACGCCCTA
GGCAAGCCCCAGCCGCAGCTCGCTCAGCGTCTCCTGCCAGGCACAGC
CGCTGCAGCATGGCCAGCGCGCAGCTGAAGCAGCAGCAAACCCCTGCA
GCCGTTGCCGAGAGGCCCATCTGCCCAACAAGGAGCGGCAACTCA
GAGAAGCCTGTTGGCGAGGCGCAACGATCATCAATGGCCAGATCTTG
CACAGCCTGTCGGCCCACCAGTTAGACCTGGTCAACGGGATGGCGCAG
TATGTTACGGACCAGGTGCTGCCTGTGCTCAAGCCGTGGAGAAGTGC
TGGCAGCCCCAGACTTCTGCCCAACCGCAGTCCGAGACAG
GACCGAGGTGGCAGAGCTCCGAAGCGCACCAGTGCCTACCGGATG
CTACCTGGTGGTGCCTATTGGGACATGATCACGGAGGAGGCGCTCCC
CACATACATGCCATGCTCAACACGCTGGACGGTGTGCGTACGAGAC
AGGCGCCGACCGACGCCATTGGGCAAGTGGACCCGCCAGTGGACAG
CCGAGGAGAACCGTCACTGGTACCTCATGAACAAGTACTGCTACCTGA
CAGGGCGTGTCAACATGAAGGCGTGGAGGTGACAATCCAGAACCTG
ATTGGCTCTGGCATGGACCCCAAGACGGAGAACAAACCCCTACCTGGC
TTCATCTACACCTCTTCCAGGAGCGTGCAGACAAGATCTGCACGGG
AACACCGCACGCCATGCCAGCGAGTATGGGACAAGGTGCTGGCAA
GATCTGCGGCGTAATCGCACAGGATGAGGGCCGGCACGAGATCGCCT
ACACGCGCATTGCGTCAGAGCTGTTAGGGCAGACCCGTCCGGCACCA
CGATTGCGITCGCAGACATGATGCGCAAGCAGATTGATGCCGCC
ACCTGATGGACGACATGGAGCACGGCAACAAGACGGGCCAACCTG
TTTCAGACTCTCCAACGTGGCGCAGGCCACGGCACCTACACAGCC
TTCGACTACCGGACATCATGGACCACCTGCTGAAGAAGTGGGACATT
GAGCACCTGACGGGCTGACGGCCAGGCCGGCGCAGGACTA
CGTGTCAAGCAGCCAACCGCATCCGAGCCTGTCGGAGCGCAGCAT
GGCGCGCCGCCAACGCCAGGCAAGAAGGACGAGACGCCCTCTCCTGGA
TCTACGGCCGACCGTCAACTGCTACATGTGGGCTGTCGATGTGAA
GTGCTGCCAGACTGGCCGACTGTTGACTGCTGGATGCGCCATGGCG
CATATGGAGTGTGTCACACCGTGCCGCATCATGCACAGCCATGTG
CCTGGTATACAAGCCAAGGACCTGCGGGAGTGTGATGGGCTTGCTT
CTCAAGCCCTGAGTGTGAGGATGTTGAGGCTCAGCAATGGC
ATAGGCTGATGGGACGTCAATTGCTCGCTAGGTAAAGGGAGCACA
CGGCAGGTGGCTGATTGTCATGAGGTTCAAGGGCAGCATGTACCGGT
CGGTCAAGGTGGATGAGGTTGCAAAGTTGGAAAAATCCATGCTGGGTGT
GGATTGCTTCGGTCAGTCATGTTGCTGGCTGCAACACATGTGTCAGC
TCCTACAGCTACCCATCATTCTGCCGTGTCGCTGTTGCCAGGC
CATACCTGTTCAAGGCCCTGTGTCAGAATCTGTGCTACACCC
TAGGAACATATTGCACTCCATGGGTATGGCAGGCTAGATGGCATGGCA
ACTCAAAGAGGAATCAAAGAACGAGCTGGCAGTATATACCATTATTGCT
CCCCGTGTGGCTGTTGCAATTGTTAGGCTGTGACTTGCAACCA
GCCAGGGCGGTGCAAGATATTCCATGTGAGTGGCAGATTAGCATGT
TGGTGTGATGATTGTCAGAATGACTGATGGAAGTCGACATTGCA
GCGGCCATGGTGTGCACTGTGAGGAGTGGAGAGCGGTAGGATCAA
GAAGTGTGTTGACAACTAGCGACACTAGATACAGTGGCTCCATGGTGG
TGGTTGACATACGCCCTTGGCAGCCTCGGGCGGTATTGAGAAC
GTTGGTCCACATCCAGGGTCCACCTGGATTGTAAGTACAGTGC
GCTGTAACAGCTGCAGGGCAAAAAAAAAAAAAAAA
AAAA

Figure S1. The full length cDNA sequence of *MiΔ9FAD*. The predicted chloroplast transit peptides are underlined. The initiation codon and termination codon are in boxes.