Gene name: MsexD2, Length: 1005 bp, Sequence:

CCCCGGATCCGGTCTCTAATGGCCCCCAACTTCGGTACCG  
AGATGTCTGCCCACATCGACGCTGAGGAGTCCTACGAGAAGCTGA  
TCCCTCCCCAGGCTGCTCCCCGAAAGTACAAGTACCTGTACGCCA  
ACATGATCTACTTCGCCTACTGGCACATCGCTGGACTGTACGGTA  
TCTACCTGGCTTTCACCTCTGCCAAGTGGGCTACCATCATTCTGG  
CCTACCTGCTGTTCGTGGCTGGCGACATTGGAGTGACCGCTGGAG  
CTCACCGACTGTGGGCTCACAAGTCTTACAAGGCTAAGCTGCCCC  
TGCAGATCCTGCTGATGCTGTTCTCCACCATGGCCTTCCAGAACA  
CCGTGATTACCTGGGTCAAGGACCACCGAATGCACCACAAGTACT  
CTGACACCGACGCCGACCCCCACAACGCTACCCGAGGTTTCTTCT  
ACTCCCACGTGGGCTGGCTGATGGTCAAGCGACACCCCGAGGCTA  
TCAAGCGGGGCAAGTCTCTGGACATGTCCGACATCTACAACAACC  
CCGTGCTGAAGTTCCAGAAGAAGTACGCCATCCCCCTGGTGACCA  
CCATTGCTTTCGTCCTGCCCACCATCATTCCCATGTACTTCTGGG  
ACGAGTCTTTCAACGTCGCCTGGCACATGACCATGCTGAAGTACA  
TCTTCGGACTGAACGCCGCTTTCCTGGTGAACTCTGTCGCCCACA  
TGTGGGGTTACAAGCCCTACGACAAGAACATCGCTCCCACCCAGT  
CCTACATTGCCACCTTCGCTACCCTGGGCGAGGGATTCCACAACT  
ACCACCACGTGTTCCCTTGGGACTACCGAGCTTCTGAGCTGGGCG  
ACAACTACCTGAACTTCACCACCAAGTTCATCGACTTCTTCGCCT  
GGATTGGATGGGCTTACGACCTGAAGGCTGCTCCTGAGGACCTGG  
TCCAGAAGCGAATTGAGCGAACCGGTGACGGCACCAAGCTGTAGT  
CTAAGAGACCCCTAGGCCCC

Gene name: MsexD3, Length: 1065 bp, Sequence:

CCCCGGATCCGGTCTCTAATGGCCCCCAACTTCGGAAACG  
AGGTGTCTTCCCCCATCGTCGCTGAGGAGTCTTACGAGAAGCTGA  
TCCCTCCCCAGGCTGCTCCCCGAAAGTACAAGTACCTGTACGCCA  
ACATGATCTACTTCACCTACTGGCACATTGCCGGCCTGTACGGAA  
TCTACCTGGCTATTACCACCGCCAAGTGGGCTACCATCATTCTGG  
CCTACCTGCTGTTCGTGGCTGGAGAGATCGGCATTACCGCTGGTG  
CTCACCGACTGTGGGCTCACAAGTCCTACAAGGCTAAGCTGCCCC  
TGCAGATCCTGCTGATGCTGTTCAACTCTACCGCCTTCCAGAACT  
CCGTGATTACCTGGGTCAAGGACCACCGAATGCACCACAAGTACT  
CTGACACCGACGCCGACCCCCACAACGCTACCCGAGGATTCTTCT  
ACTCCCACGTGGGTTGGCTGATGGTCAAGCGACACCCCGAGGCTA  
TCAAGCGGGGCAAGTCTCTGGACATGTCCGACATCTACAACAACC  
CCGTGCTGAAGTTCCAGAAGAAGTACGCCATCCCCCTGATTACCA  
CCGTGGCTTTCGTCCTGCCCACCATCATTCCCATGTACTTCTGGG  
ACGAGTCTTTCAACGTCGCCTGGCACATGACCATGCTGCGATACA  
TCATTAACCTGAACACCATCTTCCTGGTGAACTCCGTCGCCCACA  
TGTGGGGCTACAAGCCCTACGACAAGAACATCGCTCCCACCCAGA  
ACTACATTGCCACCTTCGCTACCCTGGGCGAGGGATTCCACAACT  
ACCACCACGCCTTCCCCTGGGACTACCGAGCTTCTGAGCTGGGCA  
ACAACTACCTGAACCTGACCACCAAGTTCATCGACTTCTTCGCCT  
GGATTGGATGGGCTTACGACCTGAAGACCGTCCCCGAGGACCTGC  
TGCAGAAGCGAATGGAGCGAACCGGTGACGGCACCAACCTGTGGG  
GACGAGGTGACAAGAACATGAAGAAGGACTACGTGAAGTCCACCG  
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FigureS1 Gene sequences of *MsexD2* and *MsexD3*

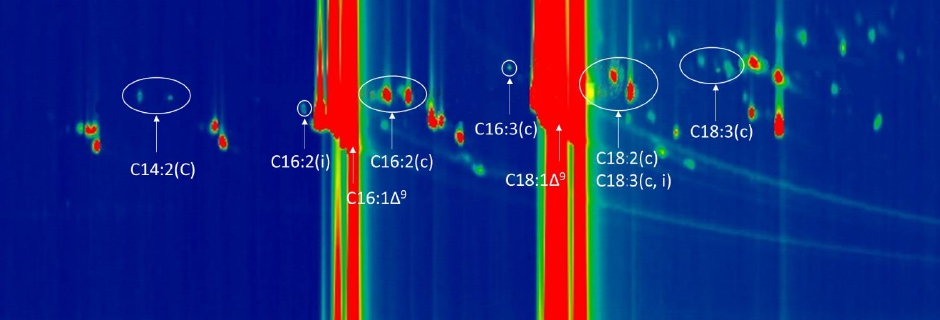


Figure S2: GCxGC-MS chromatogram of yeast sample 7084 (co-cultured with C16:2Δ10,12-Me) with description and location of new fatty acids. (c) – conjugated double bonds, (i) – isolated double bonds, (c, i) – one conjugated and one isolated double bond. Oleic and palmitoleic FAs are highlighted for better orientation in chromatogram.