

>Contig8783 acetoacetyl-coenzyme A thiolase[2.3.1.9]

CCCAATACAGTTGTCTGCACTACTGTCAACAAAGTCTGTGCTTCTGGAATGAAAGCAACT
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>Contig16773 acetoacetyl-coenzyme A thiolase[2.3.1.9]

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GTGACAGTACCACCAGTTTCCTTAAACTTGGTCTTAGCTTCCTCAACTTTGCAGCATCA
AACTTTCCTAGACCTTCATCCTTATCTACTAATGTGGATGGTTTTCTCTTCCCTCCAGAC
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>GLRWUMC01DYX3S acetoacetyl-coenzyme A thiolase[2.3.1.9]

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>GLRWUMC01A5Q0S acetoacetyl-coenzyme A thiolase[2.3.1.9]

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>GLRWUMC01DNONL acetoacetyl-coenzyme A thiolase[2.3.1.9]

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>GLRWUMC01CIAYW HMGS[2.3.3.10]

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>Contig1861 HMGS[2.3.3.10]

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>Contig2867 HMGS[2.3.3.10]

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>Contig8401 HMGS[2.3.3.10]

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>Contig12553 HMGS[2.3.3.10]

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AACTCAGGGCGAGCCACATGGCTCATGCTTACGATTTTACAAGCCTGATCTTGCCAGTG
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>Contig12993 HMGS[2.3.3.10]

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>Contig19562 HMGS[2.3.3.10]

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>GLRWUMC01AH3R6 HMGS[2.3.3.10]

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>GLRWUMC01AMX1N HMGS[2.3.3.10]
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>GLRWUMC01AL96N HMGS[2.3.3.10]
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>GLRWUMC01CEP2S HMGS[2.3.3.10]
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>Contig1093 HMGR[1.1.1.34]
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>Contig1977 HMGR[1.1.1.34]
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>Contig3551 HMGR[1.1.1.34]

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>Contig5874 HMGR[1.1.1.34]

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>Contig7603 HMGR[1.1.1.34]

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>Contig8521 HMGR[1.1.1.34]

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CTGTGGCCTATTTCTCCTCCACCGGTGGCGTGACAAGATCCGTAACCTCTACCCCGCTTC
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>Contig11827 HMGR[1.1.1.34]

CTTCCCGTCAGCCGCTGCACTGCCTCTCGACGTATTCTCGCCGCCTTAAAGCAGTCCCCG
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TGAAGGA

>Contig12378 HMGR[1.1.1.34]

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>Contig15936 HMGR[1.1.1.34]

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>GLRWUMC01DXFFE HMGR[1.1.1.34]

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>GLRWUMC01A8JM3 HMGR[1.1.1.34]

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C

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>GLRWUMC01AYS7Y HMGR[1.1.1.34]

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>GLRWUMC01B00C6 HMGR[1.1.1.34]

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>Contig14036 mevalonate kinase[2.7.1.36]

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>Contig17421 mevalonate kinase[2.7.1.36]

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>GLRWUMC01CPPO7 mevalonate kinase[2.7.1.36]

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>GLRWUMC01B13WR 5-phosphomevalonate kinase[2.7.4.2]

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>GLRWUMC01AYJAU 5-phosphomevalonate kinase[2.7.4.2]

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>Contig701 DPMD[4.1.1.33]

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>Contig6218 DPMD[4.1.1.33]

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>Contig13845 DPMD[4.1.1.33]

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>Contig11976 DPMD[4.1.1.33]

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>GLRWUMC01APFOT DPMD[4.1.1.33]

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>GLRWUMC01CBEGE DPMDC[4.1.1.33]

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>GLRWUMC01ER53F DPMDC[4.1.1.33]

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>GLRWUMC01DKPYH DPMDC[4.1.1.33]

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>Contig7918 DXS[2.2.1.7]

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>Contig16835 DXS[2.2.1.7]

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>GLRWUMC01BX1QW DXS[2.2.1.7]

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>GLRWUMC01DP006 DXS[2.2.1.7]

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>GLRWUMC01AKFN0 DXS[2.2.1.7]
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>GLRWUMC01BHEHT DXS[2.2.1.7]
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>Contig1462 DXR[1.1.1.267]
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>Contig6394 DXR[1.1.1.267]
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CA
>Contig7046 DXR[1.1.1.267]
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>Contig7071 DXR[1.1.1.267]

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>GLRWUMC01B6IXJ DXR[1.1.1.267]

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>GLRWUMC01CL6RS DXR[1.1.1.267]

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>GLRWUMC01DDQLM CMS[2.7.7.60]

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>Contig631 CMK[2.7.1.148]

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>GLRWUMC01APU1Q MECS[4.6.1.12]

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>GLRWUMC01B0U4S MECS[4.6.1.12]

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>GLRWUMC01DJKT9 MECS[4.6.1.12]

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>GLRWUMC01AKYW2 MECS[4.6.1.12]

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>Contig11061 HDS[1.17.7.1]

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>Contig15561 HDS[1.17.7.1]

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C

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>GLRWUMC01BQCCD HDS[1.17.7.1]

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>GLRWUMC01C1CU6 HDS[1.17.7.1]

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>Contig11608 HDR[1.17.1.12]

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>GLRWUMC01EFOTN HDR[1.17.1.12]

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>GLRWUMC01DH9F7 HDR[1.17.1.12]

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>GLRWUMC01CWTT5 HDR[1.17.1.12]

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>GLRWUMC01DBEDZ HDR[1.17.1.12]

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>Contig674 IDI[5.3.3.2]

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>Contig4861 IDI[5.3.3.2]

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>Contig12429 HDR[5.3.3.2]

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>GLRWUMC01EDKUR HDR[5.3.3.2]

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>GLRWUMC01ARSJV HDR[5.3.3.2]

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>GLRWUMC01D7L80 HDR[5.3.3.2]

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>GLRWUMC01DWZIM HDR[5.3.3.2]

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>Contig5255 geraniol synthase [3.1.7.3]

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>Contig8108 FPPS[2.5.1.10]

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>Contig20014 FPPS[2.5.1.10]

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>Contig21413 FPPS[2.5.1.10]

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>GLRWUMC01A2CVF FPPS[2.5.1.10]

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>GLRWUMC01EOJIN FPPS[2.5.1.10]

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>Contig17725 geranyl diphosphate synthase large subunit[2.5.1.1]

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ATAATTAGCCAGAGCAACCAAGGAGCAGCCTTAACAGAATCAAACCCAAGAAGCTGCT
C

TTGAGCTTCCCTATTCAACTTCTCAGCAAGCTCTCTTGATTTCTCAATTCCAAGAAGCTT
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>GLRWUMC01AL3AR geranyl diphosphate synthase large subunit[2.5.1.1]

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>Contig1814 GGPPS[1.3.1.74]

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>Contig6256 GGPPS[1.3.1.74]

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>Contig6918 GGPPS[1.3.1.74]

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>Contig11800 GGPPS[1.3.1.74]

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>Contig13466 GGPPS[1.3.1.74]

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>GLRWUMC01AYUSU GGPPS[1.3.1.74]

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>Contig4292 CPR[1.6.2.4]

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G

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>Contig16097 CPR[1.6.2.4]

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CTTGAGGTCATGGCTGAATTCATCTGCCAAGCCTCCGCTCGGTGTTTTCTTTGCGGCA
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>Contig19826 CPR[1.6.2.4]

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>GLRWUMC01B4IP6 CPR[1.6.2.4]

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CATTATTATTGGTACTTTAGGA

>GLRWUMC01AI9B6 CPR[1.6.2.4]

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>GLRWUMC01DAMFX CPR[1.6.2.4]

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>Contig10851 10HG0[1.1.1.255]

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>Contig12508 10HG0[1.1.1.255]

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>Contig10160 10HG0[1.1.1.255]

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>Contig11537 10HG0[1.1.1.255]

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>Contig10544 10HG0[1.1.1.255]

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CACATGGGAAGCTGGTTGTGGTTCGGCTTGCCGGAGAAGCCGCTTGAGCTGCCCTATTTTT
CCGTGACTCTGGGACGGAAAATGATGGGCGGGAGTATGATTGGAGGGCTAAAAGAGACA
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>Contig15418 10HG0[1.1.1.255]

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>GLRWUMC01CC540 10HG0[1.1.1.255]

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>GLRWUMC01C9OWY 10HG0[1.1.1.255]

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TTCA

>GLRWUMC01DNEGP 10HG0[1.1.1.255]

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>GLRWUMC01BDZGO 10HG0[1.1.1.255]

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>Contig13370 10HG0[1.1.1.255]

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CGGCTTGCTAAGGGAGATGTCAAGTATCGGTTTGTATTGATGTTGGGAAAACACTCAAA
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>GLRWUMC01CDI8V copalyl diphosphate synthase [5.5.1.13]

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TCCAAATCTCCATCAGATTTGGTGATCACTAATTTCACTAGTTCTTGCATCTCTGATTCT
ATTTCAACGGTTGTGATGCATCCCCTATTAGTCATGCACCCATTGCTATCGTGCACCTTA
ANAGTGAGATCCGATGGTAGCGCCCAAACGCAGCGTTATG

>GLRWUMC01DY909 casbene synthase[4.2.3.8]

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AATGAAGTGCAACAGTGTACAAATCATAGGTTTCATCCTCATAGTTTGTATTAAGATTGA
ATAATTGTTCCAATTTCTTTTCAATTTCAATTTTCGTAGTGGTATGATATGCCAAGACGCT
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>Contig12137 geranylgeranyl reductase[1.3.1.83]

CATCGCCTTCCAGGAGCGCATCAAAATCCCAGACGAAAAAATGAAGTACTACGAAGACC
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ATGCGACCACGTCCCGTCCGGCACCCGGCACCCACAAGGGCGACATCAAAAAAC
T
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T
CGAAGCCCATCCCATCCCCGAACACCCCCGGCCGAAACGAGTCCTCGACAGGGTGGCCCT
CGTCCGGCGACGCCGCGGGTTACGTCACAAAATGCTCCGGCGAGGGGATATACTTCGCGGC
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>Contig12609 geranylgeranyl reductase[1.3.1.83]

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>GLRWUMC01ANYN5 geranylgeranyl reductase[1.3.1.83]
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>GLRWUMC01EL7FQ geranylgeranyl reductase[1.3.1.83]
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>GLRWUMC01EAHG6 phytoene synthase[2.5.1.32]
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>GLRWUMC01C38K2 phytoene synthase[2.5.1.32]
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>GLRWUMC01C6CFD phytoene synthase[2.5.1.32]
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>Contig11662 beta-amyrin synthase[5.4.99.39]
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GGCTGATCATAAATTCTTCTCTTAGTTGTAATAATGAGAGGAGTAATTGGACCTACGAAT
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ACTTCCTGACC
>Contig7597 beta-amyrin synthase[5.4.99.39]
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>GLRWUMC01BMF75 beta-amyrin synthase[5.4.99.39]

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>GLRWUMC01CUO3B beta-amyrin synthase[5.4.99.39]

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>GLRWUMC01D1O7G beta-amyrin synthase[5.4.99.39]

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>GLRWUMC01A947I beta-amyrin synthase[5.4.99.39]

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>Contig10148 squalene synthase[2.5.1.21]

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GTAAAGATGGTGAGTTTGCCTGCGATTTTGTAGGCATCCGGATGATTTGTATCCGATGGTG
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>Contig16063 squalene synthase[2.5.1.21]

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CAAGTTTTCTGTTGTCCGTATGCATCATCATATTGTAAAGCCTACTGCCGAATTACAAGT
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>Contig8772 squalene synthase[2.5.1.21]

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AGTCACGTATGTTCTGGCCTCGTCAAATTTGGAGTAAATATGTTAACAAACTTGAGGACT
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>Contig9786 squalene synthase[2.5.1.21]

CATAACCATACATTTTTGCCAATGAAAAACTTGCCAAATTTGGATACAAACAGCATCAAC
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TATAATTTACATACGAACAACAGAAAACCTTGACAACTCTAACTAGATTATGGGCAAGACA
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AGACAACAATCAAAGTTGCATTATATTGGGGCTTGCTCTGGATAATATAAGATTTTCCTTT
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>Contig17515 squalene synthase[2.5.1.21]

GAAATTTCTCAAGGCCACACCCAAGCATTTCCGTAGCCAGAAGAAGGTGTAGAATGGGG
A

GTTTGCGTGCGATTTTGAAGCATCCGGATGATTTGTATCCGATGGTGAAGTTGAAATTGG
CTGCCAGAAGTGCGGTGAAGCAGACTCCCGGCGGAGCCACACTGGGTATTTTGTACTCT
ATGCT

>GLRWUMC01AJPI8 squalene synthase[2.5.1.21]

TGGATAATGTAAGATTTTCCTTTGGCTTAAGGTCCCAGAGTCCCTGCAAATTTTCAAGATT
GTTTCTAAGCTGTCCTTTGTCTTTCTAGCATTAGGATCACTTTCATCAACCTTCGATTTT
AGCATAAGAGAAAATCGTAGAAAGCACCAAAGACATCTGACATTGTTTTAGTTCGGTCAA
TAACTTTCGCAGTTAGACCACGTCTCATTTTCACAACACCTCTGAAGACTTCAACGTTGT
TGTAGCACAAAGCTAATGTTCCAATTGCCATGATCTGTGGAATTGCACAAAATCGAAAGT
TGCGGGGATCTCGCAAAGCAGACATGTACTTCAGGCAATCTTCGACATGTGCTAAAGCAT
TTG

>GLRWUMC01ENKR0 squalene synthase[2.5.1.21]
TGACCGTGAATGGCATTCTCTCGTGTGGTACAAAGGAATATAAAGTTCTCATGGATGAGT
TTCATCATGTTTCGACTGCTTTCTGGAGCTTGGAAGCGGGGTATCGAGGAGGCAATTGA
GGATATTACCATGAG

>GLRWUMC01BN5BQ squalene synthase[2.5.1.21]
ATGTCATTTAGACACTGCACCGCCTTAACTGAGTTTTCTCTCGTATTTTAAGTCCTCAAGT
TTGTTAACATATTTACTCCAAATTTGGCGAGGCCAGAACATACGTGACTTTGGTATCTCA
TTAATATCCTCCAGATAATCTCTGATTATATTTGTTTTCTGAAGAAATAAACCCATTGAG
TTGGAGAGAGAATCTGAAAGCAGATCTTCTTTCCAGAAGCATGGAACAGCTTTGACAAC
CCCAGTCCAACAAGTCCGGCCACATAGTGACAATATTCATCGTAATCATCAACTGTTTCT
ACCTCCTTGCATAT

>Contig17464 squalene epoxidase[1.14.13.132]
GTTCCGTTTTAGCTGCCCTTTTCGGGTTTCTCGTTTTATACTATTATGGGTTCTCGAGGA
AAAATGAAAAGAGCTGGTCGACGGAGAATGGGAATAGCACCACCAACACAACCACCATT
G
CTGAAGGAGAATGCGGATCTAGGGGATGGCGGGGATGACGTCATCATAGTCGGTGCTGG
A
GTCGCCGGCGCCGCCCTCGCTCACACTCTTGAAAGGATGGTCGACGTGTTCTGTGATT
GAAAGAGATTTGACAGAGCCTGACAGGATTGTTGGAGAACTCTTACAACCAGGTGGTTAC
CTCAAGCTCATTGAGTTAGGATTGGAAGATTGCGTGGAGAAATTGATGCT

>GLRWUMC01EMOZE squalene epoxidase[1.14.13.132]
GCCTATGAGCTTAGCTGCACACTTCTTTGCCGTTGCTGTTTATGGCGTTGGCCGCTTGCT
GCTCCCATTTCTTCGCCAAGCGCCTCTTGCTCGGAGCAAACTCTCTTGAGTGCATAT
GGGATCA

>GLRWUMC01DTXPL squalene epoxidase[1.14.13.132]
GATTTTGTGGTACTGCACTCCTCTTATGGTCCCATTTTCTTCAAGAAGAGACGTGACT
GTTCCCTTGCTCCAGTTTAAACATTTGGAAGAGATGAAGCTTCTCGCGCATCCTTTGTATG
AAGCGTCCATTATGGAAGCTCCTACCTGATACATCAGAGTGAAATTTTCCAAAGGATAA
GAAAGACGAGTAGCTTTTCCATCCTTGAATAGAGCATATCCAAACACCCTCTGAGCATCA
ATTTCTCCACGCAATCTTCCAATCCTAACTCAATGAG

>GLRWUMC01D4VM7 squalene epoxidase[1.14.13.132]
CTTGATCGATAAAAGCATCACGGAGCTCAAATGGAAGCTGAGGAGCCACTTTTGCTATCA
AGTACTTGGCCATGTCTCATTAGAAATGGAGGGCATTGTTGGGGCCAGGAATATCAACCA
AACAGCGGACTTCTGTGCTACTAACAGGATAGAATAAGACGGGCGAAGGATTAGCTAAA
A
TGACATGCCCGTGATTTGGATGTGGAAGCTTGCCGTTCTCTAGGTTGAGGACCATAACCA
CAAATGACGATACAATTGTTTACC

>Contig4169 obtusifoliol-14-demethylase[1.14.13.70]
GCCGGTCAGCACACGAGCTCGATTACTTCGACTTGGACTGGGGCCTACCTCCTCTGCAAC
CCTAAATATATGTCGGCTGTGTTGGACGAGCAGAAAAAATTGGTGCAAAAGCATGGAAA
T
GAGGTAACTACGACGTTTTGTCCGAAATGGAAGTTTTATATCGGTCCATAAAAGAAGCT
TTGAGACTCCACCCTCCGTTGATAATGCTTTTGCGAAGCTCGCATAGTGATTTTAGCGTG

ACGACTAAGGAAGGTATTGAGTATGACATTCCGAAGGGACATATTGTTGCCACGTCACCG
GCTTTTGCGAATCGACTCCCGCATATTTAACGAAAATCCGGACGTTTATGACCCTGATTA
GGTTTGGCTCCGG

>GLRWUMC01AO9Z6 obtusifoliol-14-demethylase[1.14.13.70]

TTGTAAAAGCAAATCAATTAACGAAAAAAAAAAGCAAGAAACAATTTGAATACCTCTG
C

CTCCATAACCATCTGATCAACATAACCTTTGAGCTTATTAACCCTAAGCGCCTCTGTAAA
AAACCTGAACTGCTCCTGTCTAATGGTATAATCCACATCAAACACCACCCAGGCCAAA
CGTGGGCACATTGAATTGGTAAACCTCTTGCTGGCTGAGA

>GLRWUMC01BAJ79 obtusifoliol-14-demethylase[1.14.13.70]

GGCTGAGATCGGACTCGGGGGCCTTGAAGAAATGAGCTGAACTTCTGGACCAATCAAA
A

AGGTTATGTTCTTATTAAGCAATTTTCAGAGTGAACACACTCCCAAGCTTAGGGTACTCC
TCTCTCAGCATCACCACCGGCCCTTTCATGAACCGGATTAACCGCCGAGAACCGGCCAC
GCGCTCACCGTGGGCGGCAACCGCTTTTTGGATCTGGGCATTATTAAGCTGATATCAGT
TTGCAGCCACGTAGAGTGGCTACTAGCAGAA

>GLRWUMC01CETAO obtusifoliol-14-demethylase[1.14.13.70]

AGGGGGACGAGTACGAGATTCCCAAGGGCCATATCGTCGCGACTTCGCCGGCGTTTGCGA
ACCGGCTCCCGCATGTTTTCAAGGACCCGGATTCGTACGACCCGGACCGGTTTCGCTGTTG
GGAGGGAAGAGGATAA

>Contig13735 delta14-sterol reductase [1.3.1.70]

GGAGATCGAAGAATCTGCACTTAATAAACATACGGAAGTATCCTCCATGGAACCAGTTTC
GTGTATTCTGCCATATTTCTTTGTACTIONTCTGTGCACATCGGGCTTCGTCTCGTCTCTCT
CTCCATATTAGTAGAATGAAAAGGTATATAGGATAAAAATATGGAACCTGGGGAACCTTGTC
CCACAAGGTAAACTAAAGGATAAAGCTAGCAACAAGTCCCCGAGATAGTTACTATGCCTC
GCAATGCCCAATAACCAGAAGCAAGCAACTTCCCCCAACAACCTTAGGAGGTCTACCC
CAGATTAATGCTTTCGGATTCTTTTTGAAATCGTGCTTCTGCTTGTGCTCCTCTAAAG
ACCAGATAGCCAATCAGAAAGACAAGACAGTTTGCAACAACAGCAGCAGTCGTCAGCTC
C

ACTTCATTTTTTAGAAGCCACCAACCCTGGATACTGAATGTG

>GLRWUMC01BITNQ delta14-sterol reductase [1.3.1.70]

GGCTCCACTCTCGAGAGCTCGATCGAGAGGAAATCCATGGAGCTGGAGGCCATTCTCTCT
GATCTAACCCCATCTTTGTCATCTGTACTTGGCGATCGCCGGATCTGTTATCCAGGGAAA
GATCGTCCCCGGCGCCGTCTATCCGACGGCTCTCGTCGCCACTATCGACGCAATGGTGG
TTTGGGGTTCAACTGAATCCTCAATTTTANGGGAGTTGACCTCAAGGTTGGTGGCTTTGG
ACTAACAAAGTGGAATTGACAAGCGCAGTTGCAGTTAACAATATCATT

>Contig13633 C-4 methyl sterol oxidase[1.14.13.72]

CCTTTATATGGGGGTGCTGATTTTCATGACTATCATCACCGACTGCTGTATACAAAGAGT
GGCAACTATTCATCAACTTTTGTGTACATGGACTGGATATTTGGTACTGATAAGGGCTAT
AGAAAAGTGAAGGAGCTGAAGAGTGGAGGAGACGAGAAGGCGCCGAAGAAAATGTAAA
AG

TGAACAAGACGTGTTTGGCTGTGGGTTTGTGGTATTGGAGCATCATTTGAACTGGTCTAG
TTTTGGTTCCTCAGCATCTTGTATGCAACTGCATTTTGTGTGCCCAATTGCTGTTACAGC

TAACATTTTGTGTCACGTGGAAAATCAGTTCCTGGCTTGTTATGAATTTTGTGTCCTGTA
ACCACTTCTATTTCATTTTGTGCTCTCTTTGCTAACCCAGTCATGGTTTGCATTGAGT
GAAATTCAATATCTGCATGTATGTTGTAAGCTTTCAGAGTCAACTAAATAGATAGTTCCC
TGCTGTTAGTGTATTAGA ACTGTAGTCAATGGCAAAAACAATACCTCAATTCACAA

>GLRWUMC01C7059 C-4 methyl sterol oxidase[1.14.13.72]

TTTTACTTGCTCAGCCAACCTGCCCTTCCAAAAGTATGAATGGAAGTCCCGACAAAAAG
AAGATGCTTTCATGAAGAAAGAACTTCCAAGACAAGCCAGTTGAAAGTCACTAAAATG
G

GTGATGAGATACATCCAAGCAGACTCGACCATTGAAGCCAGTGGGAAATGACGGACTTG
T

TTTCAGTAGATCTCGGCAGAGAGAGAGTAGAGATACGAGGTGGT

>GLRWUMC01AQ66M cholestenol delta-isomerase[5.3.3.5]

GATGCAGCTGTTGTTACTGTTGAAGCAATTACTGCTGCAATTGAAGGACCAGCTTGCCTT
TTGATTGTGTATGCTATCGGTACAAGGAAGCCATACAGCTACATCCTTCAGCTTGTGGTG
AGCCTCGGCCAGCTCTATGGATGCGCTGTTTACTTGAACGGCCTACTTGATGGGCATAA
CTTCACTACGAGCCCTTATATTATTGGGCCTATTACATCGGGGCCAACAGCTCGTGGATT
GTCATACCGTCCCTCATCGCAGCCAGGAGCTGGAAGAAGTTAGTAGTGCTTCAGGAAGGG
GAAGGGAAGACTCTGTAGAGTAGTGCTA

>Contig5999 cycloartenol synthase[5.4.99.8]

GAATTTCCCAACATTCTAGTCATTGCTCCTAAAGCTTCATTTTGCAAATGCTTAATTTGG
AATTTCAATTTGTCTTTTGCCCTAAATAGGTTTAAACCAGTTTGAGACGTAGCTTTGCAG
TCCATTGCAGCTTTGGAGAAATCTTCTGGGCCTGATACCCCGAACCAGATGAAGCTGG
ATCTTCTGTCAGAGAAAGTCAGAGATGAAACCTGAAGTGATAAAATCAAATCGACAGCA
T

CGTAGAGCTTATCAGTCTCTAATGCTTGTCCAGCAACCTCAGATGGCAGCTGTGATAACG
AGGTAAGGGTT

>Contig13862 cycloartenol synthase[5.4.99.8]

TATCCACAACAGGAGATCATGGGGGTCTTCAACAGGAATTGCATGATCACATATGCTGCA
TACAGGAATATATCCCTATTTGGGCTCTAGGAGAATATCGTACCCGGGGTTCTACAAAC
CCCAATGAATCAGCTGCGGATGAATCTTGAAGTTAGTTTTATGGATTTTGTACATACCC
TACGGATTTGGATTCGTGTCGTCTTGTAGCTCGTCTCCAATCCGAGTTGGTTTTAGAGTT
CAAAGTCTAGATATCATCCCAGCTTTGGTTGAAGCAGTTTGGATTTTGTCTGCTTTT
ATTATGGTGTGGTTTTCTCCGCACAATAATTTATTTATAGTTCTATATATTTCTGTACT
TGACTACCTCCGGCCA

>GLRWUMC01ADBIF cycloartenol synthase[5.4.99.8]

CGTAGCAGCATGTTCTGCACGGCCCTGAATTACGTTAGCTTAAGGCTTCTAGGAGAAGGA
ATGGACGGTGGAGATGGATCCATGCAGAAAGCCAGAACATGGATTCTTGATCATGGTGGT
GCTACCTACATTCCTTCTGGGGAAAGCTGTGGCTTTCGGTCTTGGCGTGTACG

>GLRWUMC01ALJZF cycloartenol synthase[5.4.99.8]

ACGGTGGATGGGGTCTGCACATTGAGGGCCCAAGCACCATGTTTGGTTCTGTTTTGACCT
ACGTTACTTTAAGATTGCTTGGTGAAGGACCAAATGATGGAGATGGTGCAATGGAGAAA
G

GTCGAGACTGGATTTTGGATCATGGTGGGGCCACTGCAATAACATC

>GLRWUMC01C58ZJ cycloartenol synthase[5.4.99.8]

TATTAGGACTTTTGCTGCACGGTGCAATGGCAAGGGGTCTCTCTCAGCCTGCCCAGCATC
AATGAGAGTCAGCAAAGCCCATCCCGTATTACCACATGAGACCTGTTGCCTTCTAGATTA
GTATACACCTTG

>GLRWUMC01DSG9X cycloartenol synthase[5.4.99.8]

ATATACATTATGAAGATGAAAACACTCGCTACATATGCATAGGCCCTGTAAAACAAGGTG
CTAAATATGCTTTGCTGTT