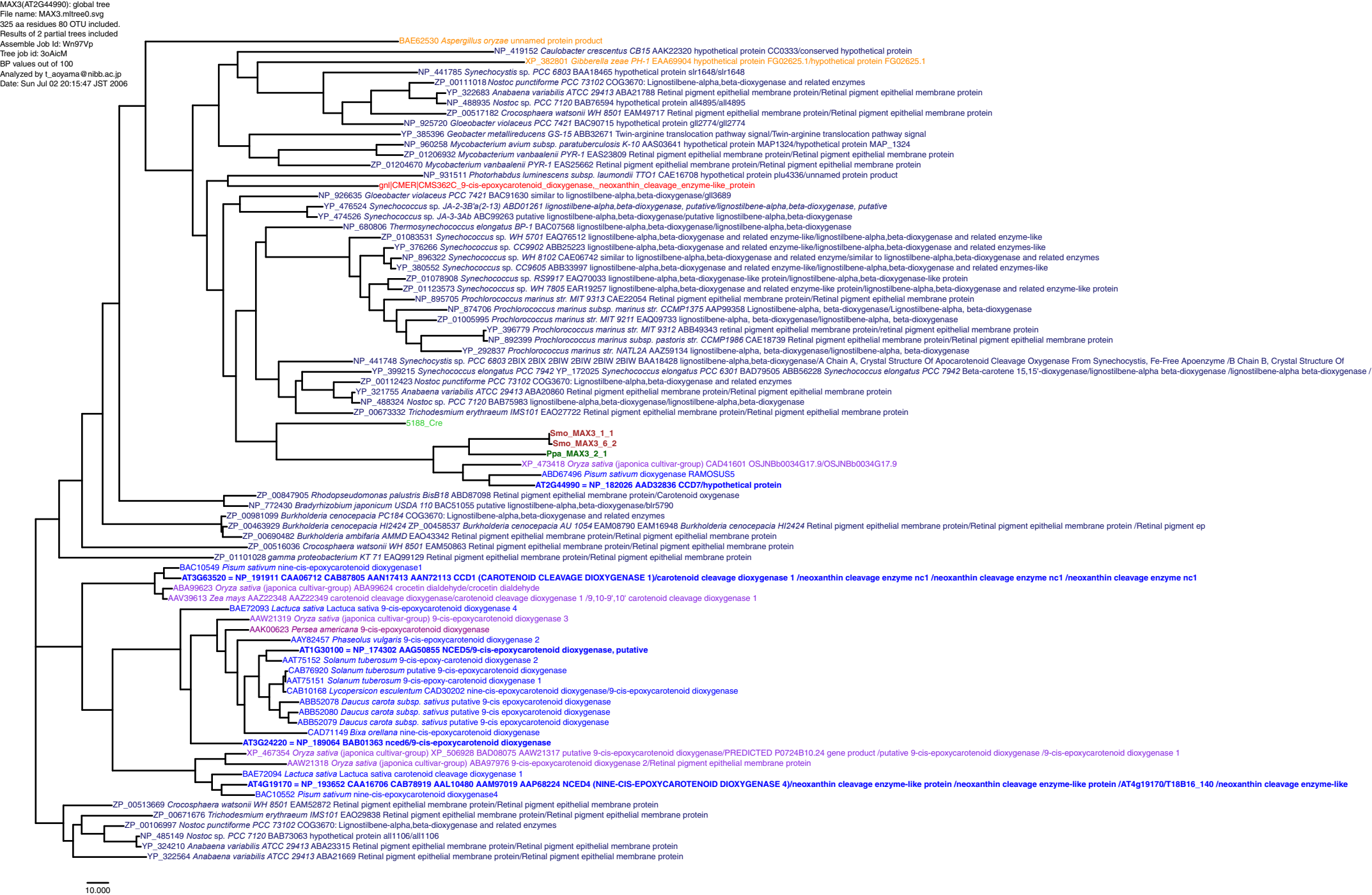
MAX3(AT2G44990): global tree
File name: MAX3.mltree0.svg
325 aa residues 80 OTU included.
Results of 2 partial trees included
Assemble Job Id: Wn97Vp
Tree job id: 3oAicM
BP values out of 100
Analyzed by t_aoyama@nibb.ac.jp
Date: Sun Jul 02 20:15:47 JST 2006
BAE62530 Aspergillus oryzae unnamed protein product
NP_419152 Caulobacter crescentus CB15 AAK22320 hypothetical protein CC0333/conserved hypothetical protein
XP_382801 Gibberella zeae PH-1 EAA69904 hypothetical protein FG02625.1/hypothetical protein FG02625.1
NP_441785 Synechocystis sp. PCC 6803 BAA18465 hypothetical protein slr1648/slr1648
ZP_00111018 Nostoc punctiforme PCC 73102 COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
YP_322683 Anabaena variabilis ATCC 29413 ABA21788 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_488935 Nostoc sp. PCC 7120 BAB76594 hypothetical protein all4895/all4895
ZP_00517182 Crocosphaera watsonii WH 8501 EAM49717 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_925720 Gloeobacter violaceus PCC 7421 BAC90715 hypothetical protein gll2774/gll2774
YP_385396 Geobacter metallireducens GS-15 ABB32671 Twin-arginine translocation pathway signal/Twin-arginine translocation pathway signal
NP_960258 Mycobacterium avium subsp. paratuberculosis K-10 AAS03641 hypothetical protein MAP1324/hypothetical protein MAP_1324
ZP_01206932 Mycobacterium vanbaalenii PYR-1 EAS23809 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_01204670 Mycobacterium vanbaalenii PYR-1 EAS25662 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_931511 Photorhabdus luminescens subsp. laumondii TTO1 CAE16708 hypothetical protein plu4336/unnamed protein product
gnl|CMER|CMS362C_9-cis-epoxycarotenoid_dioxygenase,_neoxanthin_cleavage_enzyme-like_protein
NP_926635 Gloeobacter violaceus PCC 7421 BAC91630 similar to lignostilbene-alpha,beta-dioxygenase/gll3689
YP_476524 Synechococcus sp. JA-2-3B'a(2-13) ABD01261 lignostilbene-alpha,beta-dioxygenase, putative/lignostilbene-alpha,beta-dioxygenase, putative
YP_474526 Synechococcus sp. JA-3-3Ab ABC99263 putative lignostilbene-alpha,beta-dioxygenase/putative lignostilbene-alpha,beta-dioxygenase
NP_680806 Thermosynechococcus elongatus BP-1 BAC07568 lignostilbene-alpha,beta-dioxygenase/lignostilbene-alpha,beta-dioxygenase
ZP_01083531 Synechococcus sp. WH 5701 EAQ76512 lignostilbene-alpha,beta-dioxygenase and related enzyme-like/lignostilbene-alpha,beta-dioxygenase and related enzyme-like
YP_376266 Synechococcus sp. CC9902 ABB25223 lignostilbene-alpha,beta-dioxygenase and related enzyme-like/lignostilbene-alpha,beta-dioxygenase and related enzymes-like
NP_896322 Synechococcus sp. WH 8102 CAE06742 similar to lignostilbene-alpha,beta-dioxygenase and related enzyme/similar to lignostilbene-alpha,beta-dioxygenase and related enzymes
YP_380552 Synechococcus sp. CC9605 ABB33997 lignostilbene-alpha,beta-dioxygenase and related enzyme-like/lignostilbene-alpha,beta-dioxygenase and related enzymes-like
ZP_01078908 Synechococcus sp. RS9917 EAQ70033 lignostilbene-alpha,beta-dioxygenase-like protein/lignostilbene-alpha,beta-dioxygenase-like protein
ZP_01123573 Synechococcus sp. WH 7805 EAR19257 lignostilbene-alpha,beta-dioxygenase and related enzyme-like protein/lignostilbene-alpha,beta-dioxygenase and related enzyme-like protein
NP_895705 Prochlorococcus marinus str. MIT 9313 CAE22054 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_874706 Prochlorococcus marinus subsp. marinus str. CCMP1375 AAP99358 Lignostilbene-alpha, beta-dioxygenase/Lignostilbene-alpha, beta-dioxygenase
ZP_01005995 Prochlorococcus marinus str. MIT 9211 EAQ09733 lignostilbene-alpha, beta-dioxygenase/lignostilbene-alpha, beta-dioxygenase
YP_396779 Prochlorococcus marinus str. MIT 9312 ABB49343 retinal pigment epithelial membrane protein/retinal pigment epithelial membrane protein
NP_892399 Prochlorococcus marinus subsp. pastoris str. CCMP1986 CAE18739 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
YP_292837 Prochlorococcus marinus str. NATL2A AAZ59134 lignostilbene-alpha, beta-dioxygenase/lignostilbene-alpha, beta-dioxygenase
NP_441748 Synechocystis sp. PCC 6803 2BIX 2BIX 2BIW 2BIW 2BIW 2BIW BAA18428 lignostilbene-alpha,beta-dioxygenase/A Chain A, Crystal Structure Of Apocarotenoid Cleavage Oxygenase From Synechocystis, Fe-Free Apoenzyme /B Chain B, Crystal Structure Of
YP_399215 Synechococcus elongatus PCC 7942 YP_172025 Synechococcus elongatus PCC 6301 BAD79505 ABB56228 Synechococcus elongatus PCC 7942 Beta-carotene 15,15'-dioxygenase/lignostilbene-alpha beta-dioxygenase /lignostilbene-alpha beta-dioxygenase /
ZP_00112423 Nostoc punctiforme PCC 73102 COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
YP_321755 Anabaena variabilis ATCC 29413 ABA20860 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
NP_488324 Nostoc sp. PCC 7120 BAB75983 lignostilbene-alpha,beta-dioxygenase/lignostilbene-alpha,beta-dioxygenase
ZP_00673332 Trichodesmium erythraeum IMS101 EAO27722 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
5188_Cre
Smo_MAX3_1_1
Smo_MAX3_6_2
Ppa_MAX3_2_1
XP_473418 Oryza sativa (japonica cultivar-group) CAD41601 OSJNBb0034G17.9/OSJNBb0034G17.9
ABD67496 Pisum sativum dioxygenase RAMOSUS5
AT2G44990 = NP_182026 AAD32836 CCD7/hypothetical protein
ZP_00847905 Rhodopseudomonas palustris BisB18 ABD87098 Retinal pigment epithelial membrane protein/Carotenoid oxygenase
NP_772430 Bradyrhizobium japonicum USDA 110 BAC51055 putative lignostilbene-alpha,beta-dioxygenase/blr5790
ZP_00981099 Burkholderia cenocepacia PC184 COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
ZP_00463929 Burkholderia cenocepacia HI2424 ZP_00458537 Burkholderia cenocepacia AU 1054 EAM08790 EAM16948 Burkholderia cenocepacia HI2424 Retinal pigment epithelial membrane protein /Retinal pigment epithelial membrane protein /Retinal pigment ep
ZP_00690482 Burkholderia ambifaria AMMD EAO43342 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00516036 Crocosphaera watsonii WH 8501 EAM50863 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_01101028 gamma proteobacterium KT 71 EAQ99129 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
BAC10549 Pisum sativum nine-cis-epoxycarotenoid dioxygenase1
AT3G63520 = NP_191911 CAA06712 CAB87805 AAN17413 AAN72113 CCD1 (CAROTENOID CLEAVAGE DIOXYGENASE 1)/carotenoid cleavage dioxygenase 1 /neoxanthin cleavage enzyme nc1 /neoxanthin cleavage enzyme nc1 /neoxanthin cleavage enzyme nc1
ABA99623 Oryza sativa (japonica cultivar-group) ABA99624 crocetin dialdehyde/crocetin dialdehyde
AAV39613 Zea mays AAZ22348 AAZ22349 carotenoid cleavage dioxygenase/carotenoid cleavage dioxygenase 1 /9,10-9',10' carotenoid cleavage dioxygenase 1
BAE72093 Lactuca sativa Lactuca sativa 9-cis-epoxycarotenoid dioxygenase 4
AAW21319 Oryza sativa (japonica cultivar-group) 9-cis-epoxycarotenoid dioxygenase 3
AAK00623 Persea americana 9-cis-epoxycarotenoid dioxygenase
AAY82457 Phaseolus vulgaris 9-cis-epoxycarotenoid dioxygenase 2
AT1G30100 = NP_174302 AAG50855 NCED5/9-cis-epoxycarotenoid dioxygenase, putative
AAT75152 Solanum tuberosum 9-cis-epoxy-carotenoid dioxygenase 2
CAB76920 Solanum tuberosum putative 9-cis-epoxycarotenoid dioxygenase
AAT75151 Solanum tuberosum 9-cis-epoxy-carotenoid dioxygenase 1
CAB10168 Lycopersicon esculentum CAD30202 nine-cis-epoxycarotenoid dioxygenase/9-cis-epoxycarotenoid dioxygenase
ABB52078 Daucus carota subsp. sativus putative 9-cis epoxycarotenoid dioxygenase
ABB52080 Daucus carota subsp. sativus putative 9-cis epoxycarotenoid dioxygenase
ABB52079 Daucus carota subsp. sativus putative 9-cis epoxycarotenoid dioxygenase
CAD71149 Bixa orellana nine-cis-epoxycarotenoid dioxygenase
AT3G24220 = NP_189064 BAB01363 nced6/9-cis-epoxycarotenoid dioxygenase
XP_467354 Oryza sativa (japonica cultivar-group) XP_506928 BAD08075 AAW21317 putative 9-cis-epoxycarotenoid dioxygenase/PREDICTED P0724B10.24 gene product /putative 9-cis-epoxycarotenoid dioxygenase /9-cis-epoxycarotenoid dioxygenase 1
AAW21318 Oryza sativa (japonica cultivar-group) ABA97976 9-cis-epoxycarotenoid dioxygenase 2/Retinal pigment epithelial membrane protein
BAE72094 Lactuca sativa Lactuca sativa carotenoid cleavage dioxygenase 1
AT4G19170 = NP_193652 CAA16706 CAB78919 AAL10480 AAM97019 AAP68224 NCED4 (NINE-CIS-EPOXYCAROTENOID DIOXYGENASE 4)/neoxanthin cleavage enzyme-like protein /neoxanthin cleavage enzyme-like protein /AT4g19170/T18B16_140 /neoxanthin cleavage enzyme-like
BAC10552 Pisum sativum nine-cis-epoxycarotenoid dioxygenase4
ZP_00513669 Crocosphaera watsonii WH 8501 EAM52872 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00671676 Trichodesmium erythraeum IMS101 EAO29838 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
ZP_00106997 Nostoc punctiforme PCC 73102 COG3670: Lignostilbene-alpha,beta-dioxygenase and related enzymes
NP_485149 Nostoc sp. PCC 7120 BAB73063 hypothetical protein all1106/all1106
YP_324210 Anabaena variabilis ATCC 29413 ABA23315 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
YP_322564 Anabaena variabilis ATCC 29413 ABA21669 Retinal pigment epithelial membrane protein/Retinal pigment epithelial membrane protein
10.000