BSU1 (AT1G03445): global tree
File name: BSU1.mltree0.svg
264 aa residues 78 OTU included.
Results of two partial trees included.
Assemble Job Id:SEgUCF
Tree job id: DNK5JG
BP values out of 100
Analyzed by hiwatash@nibb.ac.jp
Date: Tue Jun 06 16:11:49 JST 2006
Smo_BSU1_12_1
Ppa_BSU1_31_1
Ppa_BSU1_20_1
7782_Cre AAD38856 Chlamydomonas reinhardtii phosphatase PP1
P48481 Acetabularia peniculus CAA82264 PP12_ACECL Serine/threonine-protein phosphatase PP1 isozyme 2/protein phosphatase 1
P48480 Acetabularia peniculus CAA82263 PP11_ACECL Serine/threonine-protein phosphatase PP1 isozyme 1/protein phosphatase 1
AT1G64040 = NP_176587 P48483 AAA32838 AAL91227 AAM91230 TOPP3; protein phosphatase type 1/PP13_ARATH Serine/threonine-protein phosphatase PP1 isozyme 3 /phosphoprotein phosphatase 1/putative serine/threonine protein phosphatase PP1 isozyme 3 /putati
AT5G43380 = NP_001032000 NP_851123 NP_568625 O82733 BAA24283 BAA97417 AAM97129 AAN72154 TOPP6; protein phosphatase type 1/TOPP6; protein phosphatase type 1 /TOPP6; protein phosphatase type 1 /PP17_ARATH Serine/threonine-protein phosphatase PP1 isozy
CAA05493 Medicago sativa protein phosphatase 1 catalitic subunit
CAA07470 Catharanthus roseus PP1A protein
CAA05492 Medicago sativa protein phosphatase 1, catalytic gsmms subunit
CAA05491 Medicago sativa protein phosphatase 1, catalytic beta subunit
BAA92244 Vicia faba type 1 protein phosphatase-1
CAA05494 Medicago sativa protein phosphatase 1, catalytic epsilon subunit
AAD56010 Malus x domestica serine/threonine protein phosphatase 1; PP1
AT2G39840 = NP_181514 P48484 AAA32839 AAB87136 TOPP4; protein phosphatase type 1/PP14_ARATH Serine/threonine-protein phosphatase PP1 isozyme 4 /phosphoprotein phosphatase 1/putative serine/threonine protein phosphatase PP1 isozyme 4 (TOPP4)
P48489 Oryza sativa AAA74625 PP1_ORYSA Serine/threonine-protein phosphatase PP1/protein phosphatase 1
AT2G29400 = NP_180501 P30366 S20882 CAA45611 AAA32723 AAC95198 AAL87342 AAN13162 TOPP1 (TYPE ONE PROTEIN PHOSPHATASE 1); protein phosphatase type 1/PP11_ARATH Serine/threonine-protein phosphatase PP1 isozyme 1 /S20882 phosphoprotein phosphatase (EC
O04857 Nicotiana tabacum CAB07804 PP12_TOBAC Serine/threonine-protein phosphatase PP1 isozyme 2/protein phosphatase type 1
O04856 Nicotiana tabacum CAB07803 PP11_TOBAC Serine/threonine-protein phosphatase PP1 isozyme 1/protein phosphatase type 1
AT3G46820 = NP_190266 P48485 AAA32840 CAB51183 AAM64756 ABD59053 TOPP5; protein phosphatase type 1/PP15_ARATH Serine/threonine-protein phosphatase PP1 isozyme 5 /phosphoprotein phosphatase 1/phosphoprotein phosphatase /phosphoprotein phosphatase /At
CAA78153 Arabidopsis thaliana protein phosphatase 1A
AT5G59160 = NP_851218 NP_200724 NP_001032103 P48482 AAA32837 BAB09762 AAO00761 ABD65592 TOPP2; protein serine/threonine phosphatase /TOPP2; protein serine/threonine phosphatase /TOPP2; protein serine/threonine phosphatase /PP12_ARATH Serine/threonin
XP_468432 Oryza sativa (japonica cultivar-group) AAK64283 Oryza sativa BAD22973 Oryza sativa (japonica cultivar-group) BAD23102 protein phosphatase/protein phosphatase /protein phosphatase /protein phosphatase
P22198 Zea mays 1909338A AAA33545 PP1_MAIZE Serine/threonine-protein phosphatase PP1 /1909338A protein phosphatase 1/protein phosphatase-1
AAA98971 Gonyaulax polyedra PP-1, PrP-1; phosphoprotein phosphatase; putative type-1 serine/threonine phosphatase; Method: conceptual translation supplied by author
AAA19174 Paramecium tetraurelia phosphoprotein phosphatase 1
AAA19173 Paramecium tetraurelia CAA47831 phosphoprotein phosphatase 1/serine /threonine specific protein phosphatase
XP_667490 Cryptosporidium hominis TU502 EAL37255 Cryptosporidium hominis hypothetical protein Chro.70303/hypothetical protein Chro.70303
XP_952369 Theileria annulata strain Ankara CAI74637 Theileria annulata serine/threonine protein phosphatase 1, PP1-gamma catalytic subunit /serine/threonine protein phosphatase 1, PP1-gamma catalytic subunit, putative
XP_764916 Theileria parva strain Muguga EAN32633 Theileria parva serine/threonine protein phosphatase /serine/threonine protein phosphatase, putative
gnl|CMER|CME079C_serine/threonine_protein_phosphatase_PP1_catalytic_subunit
NP_001022616 Caenorhabditis elegans P48727 AAK18957 CAE57617 Caenorhabditis briggsae yeast Glc Seven-like Phosphatases family member (gsp-2)/YMEX_CAEEL Putative serine/threonine-protein phosphatase F56C9.1 in chromosome III/Yeast glc seven-like pho
AAX83389 Schistosoma mansoni protein phosphatase type 1
XP_393296 Apis mellifera XP_623273 PREDICTED: similar to MGC79074 protein/PREDICTED: similar to protein phosphatase 1
AAS21337 Oikopleura dioica protein phosphatase 1 catalytic subunit beta isoform
NP_505733 Caenorhabditis elegans CAA98273 CAE64872 Caenorhabditis briggsae yeast Glc Seven-like Phosphatases family member (gsp-1)/Hypothetical protein F29F11.6 /Hypothetical protein CBG09676
XP_643639 Dictyostelium discoideum AX4 AAB71415 Dictyostelium discoideum AAS38795 EAL69560 hypothetical protein DDB0185058/protein phosphatase type 1-like catalytic subunit /similar to Emericella nidulans (Aspergillus nidulans). Serine/threonine pr
BAE62075 Aspergillus oryzae unnamed protein product
NP_596317 Schizosaccharomyces pombe 972h- P13681 Schizosaccharomyces pombe AAA74731 AAA89197 CAA22875 hypothetical protein SPBC776.02c/PP11_SCHPO Serine/threonine-protein phosphatase PP1-1 /protein phosphatase 1/protein phosphatase type 1 /dis2
XP_759227 Ustilago maydis 521 EAK84081 serine/threonine protein phosphatase /PP1_EMENI SERINE/THREONINE PROTEIN PHOSPHATASE PP1
XP_569132 Cryptococcus neoformans var. neoformans JEC21 XP_569133 XP_569131 EAL22490 Cryptococcus neoformans var. neoformans B-3501A EAL22491 AAW41824 Cryptococcus neoformans var. neoformans JEC21 AAW41825 AAW41826 protein phosphatase type 1/prot
XP_365975 Magnaporthe grisea 70-15 EAQ89135 Chaetomium globosum CBS 148.51 hypothetical protein MG10195.4/serine/threonine protein phosphatase PP1
AAC05275 Neurospora crassa serine/threonine protein phosphatase type 1
XP_387409 Gibberella zeae PH-1 EAA77831 PP1_NEUCR Serine/threonine protein phosphatase PP1 /PP1_NEUCR Serine/threonine protein phosphatase PP1
XP_499862 Yarrowia lipolytica CLIB122 CAG83788 hypothetical protein/unnamed protein product
AAA34570 Saccharomyces cerevisiae protein phosphatase 1
NP_011059 Saccharomyces cerevisiae P32598 AAB59322 AAC03231 Catalytic subunit of type 1 serine/threonine protein phosphatase, involved in many processes including glycogen metabolism, sporulation, and mitosis; interacts with multiple regulatory subun
XP_448315 Candida glabrata CBS 138 CAG61276 unnamed protein product/unnamed protein product
NP_985713 Eremothecium gossypii AAS53537 Ashbya gossypii ATCC 10895 AFR166Cp/AFR166Cp
XP_455645 Kluyveromyces lactis NRRL Y-1140 CAG98353 unnamed protein product/unnamed protein product
NP_587898 Schizosaccharomyces pombe 972h- P23880 Schizosaccharomyces pombe AAA35341 CAA21222 hypothetical protein SPCC31H12.05c/PP12_SCHPO Serine/threonine-protein phosphatase PP1-2 (Suppressor protein SDS21) /protein phosphatase 1/sds21
P48490 Phaseolus vulgaris CAA88254 PP1_PHAVU Serine/threonine-protein phosphatase PP1/protein phosphatase PP1
AAO69665 Phaseolus acutifolius serine threonine protein phosphatase
NP_586372 Encephalitozoon cuniculi GB-M1 CAD25976 SER/THR PROTEIN PHOSPHATASE PPI-1 CATALYTIC SUBUNIT /SER/THR PROTEIN PHOSPHATASE PPI-1 CATALYTIC SUBUNIT
NP_113268 Guillardia theta AAK39828 serine/threonine protein phosphatase type 1 alpha /serine/threonine protein phosphatase type 1 alpha
1241_Cre
Smo_BSU1_24_1
Ppa_BSU1_1_1
Ppa_BSU1_26_1
Ppa_BSU1_4_1
Ppa_BSU1_3_1
ABA99873 Oryza sativa (japonica cultivar-group) hypothetical protein LOC_Os12g42310
AT1G08420 = NP_172318 Q9SJF0 AAF22889 hydrolase/protein serine/threonine phosphatase /BSL2_ARATH Serine/threonine-protein phosphatase BSL2 (BSU1-like protein 2)/T27G7.10
AT2G27210 = NP_180289 Q9SHS7 AAD26883 hydrolase/protein serine/threonine phosphatase /BSL3_ARATH Serine/threonine-protein phosphatase BSL3 (BSU1-like protein 3)/putative phosphoprotein phosphatase
Smo_BSU1_15_1
AAU90203 Oryza sativa (japonica cultivar-group) putative Serine/threonine protein phosphatase BSL1
Q8L7U5 Arabidopsis thaliana AAM83219 BSL1_ARATH Serine/threonine-protein phosphatase BSL1 (BSU1-like protein 1)/AT4g03080/T4I9_4
AT4G03080 = NP_192217 AAC79097 CAB77793 hydrolase/protein serine/threonine phosphatase /putative phospho-ser/thr phosphatase /putative phospho-ser/thr phosphatase
AT1G03445 = NP_171844 Q9LR78 T00913 AAF86539 AAR19789 BSU1; hydrolase/protein serine/threonine phosphatase /BSU1_ARATH Serine/threonine-protein phosphatase BSU1 (Bri1 suppressor protein 1)/T00913 probable phosphoprotein phosphatase (EC 3.1.3.16) F21
EAR82584 Tetrahymena thermophila SB210 Ser/Thr protein phosphatase family protein
EAS02286 Tetrahymena thermophila SB210 Ser/Thr protein phosphatase family protein
XP_666328 Cryptosporidium hominis TU502 EAL36098 Cryptosporidium hominis protein serine/threonine phosphatase alpha /protein serine/threonine phosphatase alpha
NP_702519 Plasmodium falciparum 3D7 AAC69437 Plasmodium falciparum AAN37243 Plasmodium falciparum 3D7 protein serine/threonine phosphatase /protein serine/threonine phosphatase alpha /protein serine/threonine phosphatase
XP_678280 Plasmodium berghei strain ANKA CAH95465 Plasmodium berghei protein serine/threonine phosphatase /protein serine/threonine phosphatase, putative
XP_727284 Plasmodium yoelii yoelii str. 17XNL EAA18849 Plasmodium yoelii yoelii protein serine/threonine phosphatase alpha /protein serine/threonine phosphatase alpha
XP_953085 Theileria annulata strain Ankara CAI76460 Theileria annulata serine/threonine phosphatase /serine/threonine phosphatase, putative
XP_764058 Theileria parva strain Muguga EAN31775 Theileria parva serine/threonine protein phosphatase /serine/threonine protein phosphatase, putative
10.000