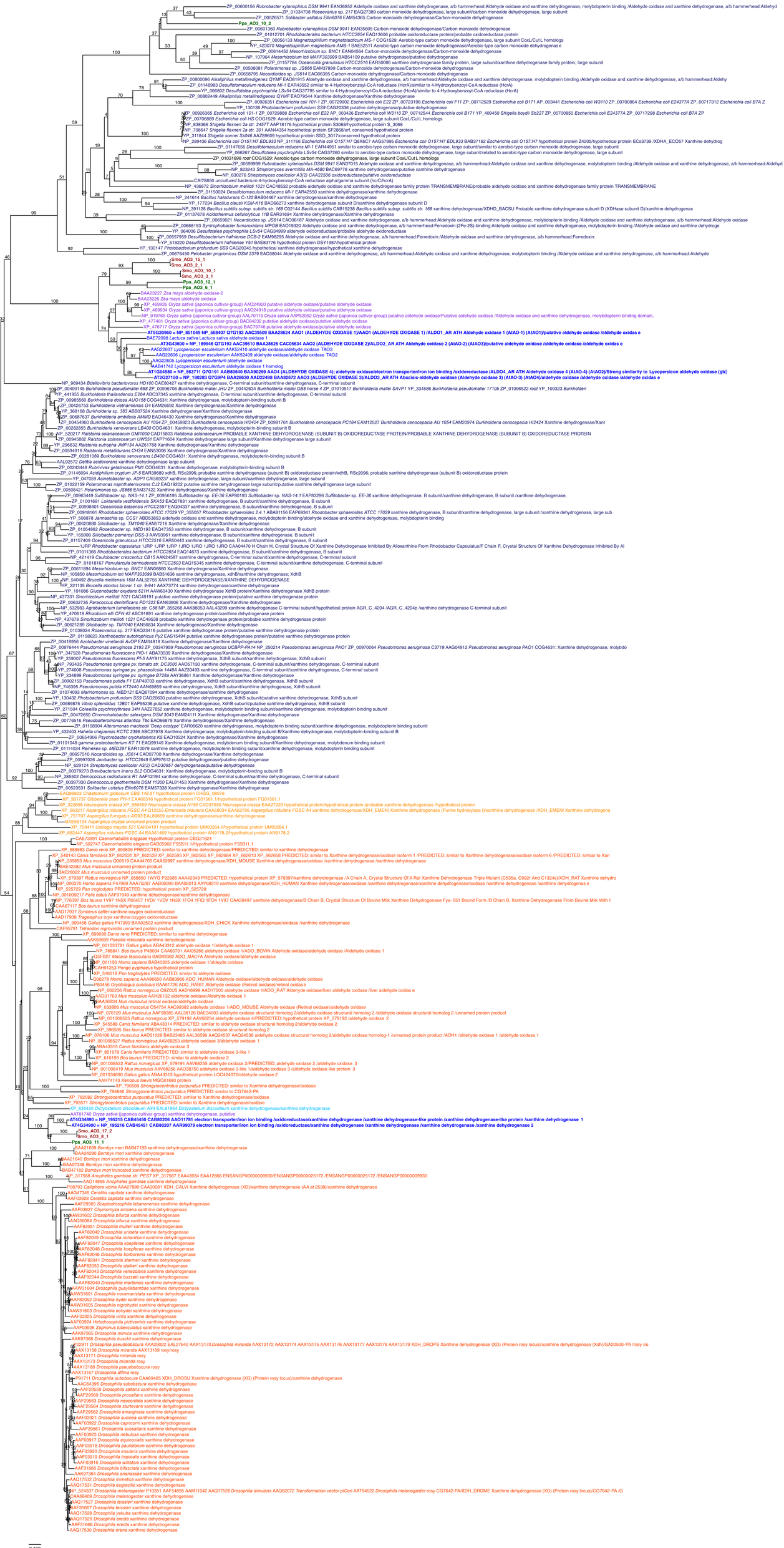
AAO3(ET2G27150): partial tree
File name: AO3.pt2
171 aa residues 272 OTU included.
Partial tree including Smo_AO3_3_1 , 8_1 , AAC39510.1 *Arabidopsis thaliana*
Assemble Job Id:4AgHK
Tree job id: 0sknOZ
BP values out of 100
Analyzed by Maruyama/Fujita
Date: Thu Sep 14 15:30:45 JST 2006


ZP_00600156 Rubrobacter xylanophilus DSM 9941 EAN36852 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyd
ZP_01034709 Rosevarius sp. 217 EAQ27389 carbon monoxide dehydrogenase, large subunit/carbon monoxide dehydrogenase, large subunit
ZP_00526571 Solibacter usitatus Ellin6076 EAM54365 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
Ppa_AO3_10_2
ZP_00601360 Rubrobacter xylanophilus DSM 9941 EAN35605 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
ZP_01012701 Rhodobacterales bacterium HTCC2654 EAQ13606 probable oxidoreductase protein/probable oxidoreductase protein
ZP_00056133 Magnetospirillum magnetotacticum MS-1 COG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
YP_423070 Magnetospirillum magneticum AMB-1 BAE52511 Aerobic-type carbon monoxide dehydrogenase/Aerobic-type carbon monoxide dehydrogenase e
ZP_00614452 Mesorhizobium sp. BNC1 EAN04564 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
NP_107964 Mesorhizobium loti MAFF303099 BAB54109 putative dehydrogenase/putative dehydrogenase
ZP_01157784 Oceanicola granulosus HTCC2516 EAR50086 xanthine dehydrogenase family protein, large subunit/xanthine dehydrogenase family protein, large subunit
ZP_00508081 Polaromonas sp. JS666 EAM37889 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
ZP_00558795 Nocardioides sp. JS614 EAO06395 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
ZP_00800096 Alkaliphilus metalliredigenes QYMF EAO81915 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehy
ZP_01148983 Desulfotomaculum reducens MI-1 EAR43552 similar to 4-Hydroxybenzoyl-CoA reductase (HcrA)/similar to 4-Hydroxybenzoyl-CoA reductase (HcrA)
ZP_066802 Desulfotomaculum ruminis LSv54 CAG37795 similar to 4-Hydroxybenzoyl-CoA reductase (HcrA)/similar to 4-Hydroxybenzoyl-CoA reductase (HcrA)
ZP_00802449 Alkaliphilus metalliredigenes QYMF EAO79544 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00926351 Escherichia coli 101-1 ZP_00729902 Escherichia coli E22 ZP_00723198 Escherichia coli F11 ZP_00715229 Escherichia coli B171 AP_003441 Escherichia coli W3110 ZP_00700864 Escherichia coli E24377A ZP_00717312 Escherichia coli B7A Z
YP_130138 Photobacterium profundum SS9 CAG02036 putative dehydrogenase/putative dehydrogenase
ZP_00926365 Escherichia coli 101-1 ZP_00729888 Escherichia coli E22 AP_003426 Escherichia coli W3110 ZP_00712544 Escherichia coli B171 YP_409450 Shigella boydii Sb227 ZP_00700850 Escherichia coli E24377A ZP_00717298 Escherichia coli B7A ZP
ZP_00706889 Escherichia coli H5 CGG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
NP_838366 Shigella flexneri 2a str. 2457T AAP18176 hypothetical protein S3068/hypothetical protein S_3068
NP_708647 Shigella flexneri 2a str. 301 AAN44354 hypothetical protein SF2868/orf, conserved hypothetical protein
YP_311884 Shigella sonnei Sd046 AAZ89609 hypothetical protein SSO_3017/conserved hypothetical protein
NP_289436 Escherichia coli O157:H7 EDL933 NP_311766 Escherichia coli O157:H7 Q8X6C7 AAG57995 Escherichia coli O157:H7 EDL933 BAB37162 Escherichia coli O157:H7 hypothetical protein Z4205/hypothetical protein ECs3739 /XDHA_ECO57 Xanthine dehydrog
ZP_01147656 Desulfotomaculum reducens MI-1 EAR44951 similar to aerobic-type carbon monoxide dehydrogenase, large subunit/similar to aerobic-type carbon monoxide dehydrogenase, large subunit
ZP_066267 Desulfotomaculum ruminis LSv54 CAG37360 similar to aerobic-type carbon monoxide dehydrogenase, large subunit/related to aerobic-type carbon monoxide dehydrogenase, large subunit
ZP_01031698 root COG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
ZP_00599999 Rubrobacter xylanophilus DSM 9941 EAN37015 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyd
NP_833243 Streptomyces avermitilis MA-4680 BAC69778 xanthine dehydrogenase/putative xanthine dehydrogenase
NP_630276 Streptomyces coelicolor A3(2) CAA22506 oxidoreductase/putative oxidoreductase
CAI78850 uncultured bacterium 4-hydroxybenzoyl-CoA reductase alpha/gamma subunit (hcrC/hcrA)
NP_436672 Sinorhizobium meliloti 1021 CAC48532 probable aldehyde oxidase and xanthine dehydrogenase family protein TRANSMEMBRANE/probable aldehyde oxidase and xanthine dehydrogenase family protein TRANSMEMBRANE
ZP_01150024 Desulfotomaculum reducens MI-1 EAR42550 xanthine dehydrogenase/xanthine dehydrogenase
NP_241614 Bacillus halodurans C-125 BAB04467 xanthine dehydrogenase/xanthine dehydrogenase
YP_177234 Bacillus clausii KSM-K16 BAD66273 xanthine dehydrogenase subunit D/xanthine dehydrogenase subunit D
NP_391128 Bacillus subtilis subsp. subtilis str. 168 O32144 Bacillus subtilis CAB15238 Bacillus subtilis subsp. subtilis str. 168 xanthine dehydrogenase/XDHD_BACSU Probable xanthine dehydrogenase subunit D (XDHase subunit D)/xanthine dehydrogenas
ZP_01137678 Acidothermus cellulolyticus 11B EAR31694 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00659021 Nocardioides sp. JS614 EAO06187 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde oxidase
ZP_00668153 Syntrophobacter fumaroxidans MPOB EAO19320 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Ferredoxin:(2Fe-2S)-binding:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydroge
YP_064006 Desulfotalea psychrophila LSv54 CAG34999 aldehyde oxidoreductase/probable aldehyde oxidoreductase
ZP_00557959 Desulfitobacterium hafniense DCB-2 EAM98295 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Ferredoxin:(2Fe-2S)-binding:Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Ferredoxin:
YP_518220 Desulfitobacterium hafniense Y51 BAE83776 hypothetical protein DSY1987/hypothetical protein
YP_1301477 Photobacterium profundum SS9 CAG02345 hypothetical xanthine dehydrogenase/hypothetical xanthine dehydrogenase
ZP_00676450 Pelobacter propionicus DSM 2379 EAO38044 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde
Smo_AO3_15_1
Smo_AO3_2_1
Smo_AO3_10_1
Smo_AO3_3_1
Ppa_AO3_12_1
Ppa_AO3_6_1
BAA23227 Zea mays aldehyde oxidase-2
BAA23226 Zea mays aldehyde oxidase
XP_469935 Oryza sativa (japonica cultivar-group) AAO24920 putative aldehyde oxidase/putative aldehyde oxidase
XP_469934 Oryza sativa (japonica cultivar-group) AAO24918 putative aldehyde oxidase/putative aldehyde oxidase
NP_919765 Oryza sativa (japonica cultivar-group) AAL70116 Oryza sativa AAP52052 Oryza sativa (japonica cultivar-group) putative aldehyde oxidase/Putative aldehyde oxidase /Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding domain,
NP_477481 Oryza sativa (japonica cultivar-group) BAC84232 putative aldehyde oxidase/putative aldehyde oxidase
XP_476717 Oryza sativa (japonica cultivar-group) BAC79746 putative aldehyde oxidase/putative aldehyde oxidase
AT5G20960 = NP_851049 NP_568407 Q7G193 AAC39509 BAA28624 AAO1 (ALDEHYDE OXIDASE 1)/ALDO1_AR ATH Aldehyde oxidase 1 (AtAO-1) (AtAO1)/putative aldehyde oxidase /aldehyde oxidas e
BAE72098 Lactuca sativa Lactuca sativa aldehyde oxidase 1
ATG43600 = NP_189946 Q7G192 AAC39510 BAA28625 CAC05634 AAO2 (ALDEHYDE OXIDASE 2)/ALDO2_AR ATH Aldehyde oxidase 2 (AtAO-2) (AtAO3)/putative aldehyde oxidase /aldehyde oxidase /aldehyde oxidas e
AAG22607 Lycopersicon esculentum AAK52410 aldehyde oxidase/aldehyde oxidase TAO3
AAG22606 Lycopersicon esculentum AAK52409 aldehyde oxidase/aldehyde oxidase TAO2
AAG22605 Lycopersicon esculentum aldehyde oxidase
AAB41742 Lycopersicon esculentum aldehyde oxidase 1 homolog
AT1G04580 = NP_563711 Q7G191 AABB0640 BAA90099 AAO4 (ALDEHYDE OXIDASE 4); aldehyde oxidase/electron transporter/iron ion binding /oxidoreductase /ALDO4_AR ATH Aldehyde oxidase 4 (AtAO-4) (AtAO2)/Strong similarity to Lycopersicon aldehyde oxidase (gb|
AT2G27150 = NP_180283 Q7G9P4 BAA28630 AAD22498 BAA82672 AAO3 (ALDEHYDE OXIDASE 3)/ALDO3_AR ATH Abscisic-aldehyde oxidase (Aldehyde oxidase 3) (AtAO-3) (AtAO4)/aldehyde oxidase /aldehyde oxidase /aldehyde oxidas e
NP_969434 Bdellovibrio bacteriovorus HD100 CAE80427 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
ZP_00490145 Burkholderia pseudomallei 668 ZP_00936706 Burkholderia mallei JHU ZP_00442634 Burkholderia mallei GB8 horse 4 ZP_01010517 Burkholderia mallei SAVP1 YP_334586 Burkholderia pseudomallei 1710b ZP_01096522 root YP_109323 Burkholderi
YP_441955 Burkholderia thailandensis E264 ABC37345 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
ZP_00985560 Burkholderia dolosa AUO158 COG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
ZP_00426753 Burkholderia vietnamiensis G4 EAM26692 Xanthine dehydrogenase/Xanthine dehydrogenase
YP_368168 Burkholderia sp. 383 ABB07524 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00687637 Burkholderia ambifaria AMMD EAO46430 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00454960 Burkholderia cenocepacia AU 1054 ZP_00459803 Burkholderia cenocepacia HI2424 ZP_00981761 Burkholderia cenocepacia PC184 EAM12527 Burkholderia cenocepacia AU 1054 EAM20974 Burkholderia cenocepacia HI2424 Xanthine dehydrogenase/Xant
ZP_00282855 Burkholderia xenovorans LB400 COG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
NP_520217 Ralstonia solanacearum GMI1000 CAD15803 Ralstonia solanacearum PROBABLE XANTHINE DEHYDROGENASE (SUBUNIT B) OXIDOREDUCTASE PROTEIN/PROBABLE XANTHINE DEHYDROGENASE (SUBUNIT B) OXIDOREDUCTASE PROTEIN
ZP_00945882 Ralstonia solanacearum UW551 EAP71604 Xanthine dehydrogenase large subunit/ Xanthine dehydrogenase large subunit
YP_296632 Ralstonia eutropha JMP134 AAZ61788 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00594918 Ralstonia metallidurans CH34 EAN53006 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00281089 Burkholderia xenovorans LB400 COG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
AAL95272 Delftia acidovorans xanthine dehydrogenase large subunit
ZP_00243448 Rubrivivax gelatinosus PM1 COG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
ZP_01146094 Acidiphilium cryptum JF-5 EAR36689 xdhB, RSc2096; probable xanthine dehydrogenase (subunit B) oxidoreductase protein/xdhB, RSc2096; probable xanthine dehydrogenase (subunit B) oxidoreductase protein
YP_047059 Acinetobacter sp. ADP1 CAG69237 xanthine dehydrogenase, large subunit/xanthine dehydrogenase, large subunit
ZP_01022159 Polaromonas naphthalenivorans CJ2 EAQ18002 putative xanthine dehydrogenase large subunit/putative xanthine dehydrogenase large subunit
ZP_00508421 Polaromonas sp. JS666 EAM37422 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00963449 Sulfitobacter sp. NAS-14.1 ZP_00956195 Sulfitobacter sp. EE-36 EAP80193 Sulfitobacter sp. NAS-14.1 EAP83296 Sulfitobacter sp. EE-36 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit /xanthine dehydrogenase,
ZP_01001691 Loktanella vestfoldensis SKA53 EAO07831 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
ZP_00998401 Oceanicola batsensis HTCC2597 EAQ04337 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
ZP_00918161 Rhodobacter sphaeroides ATCC 17029 YP_355057 Rhodobacter sphaeroides 2.4.1 ABA81156 EAP69341 Rhodobacter sphaeroides ATCC 17029 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, large subunit /xanthine dehydrogenase, large sub
YP_508878 Jannaschia sp. CCS1 ABD53853 aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:molybdopterin binding/aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding
ZP_00620880 Silicibacter sp. TM1040 EAN57218 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_01054862 Roseobacter sp. MED193 EAQ47353 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
YP_165908 Silicibacter pomeroyi DSS-3 AAV93961 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
ZP_01157409 Oceanicola granulosus HTCC2516 EAR50443 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
1JRP Rhodobacter capsulatus 1JRP 1JRP 1JRO 1JRO 1JRO CAA04610 H Chain O, Crystal Structure Of Xanthine Dehydrogenase Inhibited By Alloxanthine From Rhodobacter Capsulatus/F Chain F, Crystal Structure Of Xanthine Dehydrogenase Inhibited By Al
ZP_01011366 Rhodobacterales bacterium HTCC2654 EAQ14673 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
NP_421419 Caulobacter crescentus CB15 AAK24587 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
ZP_01018167 Parvularcula bermudensis HTCC2503 EAQ15345 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
ZP_00611894 Mesorhizobium sp. BNC1 EAN06860 Xanthine dehydrogenase/Xanthine dehydrogenase
NP_105850 Mesorhizobium loti MAFF303099 BAB51636 xanthine dehydrogenase, xdhB/xanthine dehydrogenase; XdhB
NP_540492 Brucella melitensis 16M AAL52756 XANTHINE DEHYDROGENASE/XANTHINE DEHYDROGENASE
YP_221135 Brucella abortus biovar 1 str. 9-941 AAX73774 xanthine dehydrogenase/xanthine dehydrogenase
YP_191086 Gluconobacter oxydans 621H AAW60430 Xanthine dehydrogenase XdhB protein/Xanthine dehydrogenase XdhB protein
NP_437331 Sinorhizobium meliloti 1021 CAC49191 putative xanthine dehydrogenase protein/putative xanthine dehydrogenase protein
ZP_00632735 Paracoccus denitrificans PD1222 EAN63906 Xanthine dehydrogenase/Xanthine dehydrogenase
NP_532983 Agrobacterium tumefaciens str. C58 NP_355268 AAK88053 AAL43299 xanthine dehydrogenase C-terminal subunit/hypothetical protein AGR_C_4204 /AGR_C_4204p /xanthine dehydrogenase C-terminal subunit
YP_470618 Rhizobium etli CFN 42 ABC91891 xanthine dehydrogenase protein/xanthine dehydrogenase protein
NP_437678 Sinorhizobium meliloti 1021 CAC49538 probable xanthine dehydrogenase protein/probable xanthine dehydrogenase protein
ZP_00621289 Silicibacter sp. TM1040 EAN56834 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_01038024 Roseovarius sp. 217 EAQ23416 putative xanthine dehydrogenase protein/putative xanthine dehydrogenase protein
ZP_01198623 Xanthobacter autotrophicus Py2 EAS15494 putative xanthine dehydrogenase protein/putative xanthine dehydrogenase protein
ZP_00418956 Azotobacter vinelandii AvOP EAM04818 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00976444 Pseudomonas aeruginosa 2192 ZP_00347959 Pseudomonas aeruginosa UCBPP-PA14 NP_250214 Pseudomonas aeruginosa PAO1 ZP_00970064 Pseudomonas aeruginosa C3719 AAG04912 Pseudomonas aeruginosa PAO1 COG4631: Xanthine dehydrogenase, molybdo
YP_347528 Pseudomonas fluorescens PfO-1 ABA73539 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_259007 Pseudomonas fluorescens Pf-5 AAY91175 xanthine dehydrogenase, XdhB subunit/xanthine dehydrogenase, XdhB subunit
NP_793435 Pseudomonas syringae pv. tomato str. DC3000 AAO57130 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
YP_274008 Pseudomonas syringae pv. phaseolicola 1448A AAZ33493 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
Lyp_234899 Pseudomonas syringae pv. syringae B728a AAY36861 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00902153 Pseudomonas putida F1 EAP48703 xanthine dehydrogenase, XdhB subunit/xanthine dehydrogenase, XdhB subunit
NP_746395 Pseudomonas putida KT2440 AAN69859 xanthine dehydrogenase, XdhB subunit/xanthine dehydrogenase, XdhB subunit
ZP_01074093 Marinomonas sp. MED121 EAQ67094 xanthine dehydrogenase/xanthine dehydrogenase
YP_130432 Photobacter profundum SS9 CAG20630 putative xanthine dehydrogenase, XdhB subunit/putative xanthine dehydrogenase, XdhB subunit
ZP_00989875 Vibrio splendidus 12B01 EAP95236 putative xanthine dehydrogenase, XdhB subunit/putative xanthine dehydrogenase, XdhB subunit
YP_271504 Colwellia psychrerythraea 34H AAZ27852 xanthine dehydrogenase, molybdopterin binding subunit/xanthine dehydrogenase, molybdopterin binding subunit
ZP_00472650 Chromohalobacter salexigens DSM 3043 EAM24111 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00776116 Pseudoalteromonas atlantica T6c EAC66679 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_01108904 Alteromonas macleodii 'Deep ecotype' EAR06620 xanthine dehydrogenase, molybdopterin binding subunit/xanthine dehydrogenase, molybdopterin binding subunit
YP_432403 Hahella chejuensis KCTC 2396 ABC27978 Xanthine dehydrogenase, molybdopterin-binding subunit B/Xanthine dehydrogenase, molybdopterin-binding subunit B
ZP_00654906 Psychrobacter cryohalolentis K5 EAO10324 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_01101048 gamma proteobacterium KT 71 EAQ99149 Xanthine dehydrogenase, molybdenum binding subunit/Xanthine dehydrogenase, molybdenum binding subunit
ZP_01114034 Reinekea sp. MED297 EAR10079 xanthine dehydrogenase, molybdopterin binding subunit/xanthine dehydrogenase, molybdopterin binding subunit
ZP_00657510 Nocardioides sp. JS614 EAO07700 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00997026 Janibacter sp. HTCC2649 EAP97612 putative dehydrogenase/putative dehydrogenase
NP_629124 Streptomyces coelicolor A3(2) CAD30957 dehydrogenase/putative dehydrogenase
ZP_00379273 Brevibacterium linens BL2 COG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
NP_285502 Deinococcus radiodurans R1 AAF12194 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
ZP_00397930 Deinococcus geothermalis DSM 11300 EAL81453 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00523531 Solibacter usitatus Ellin6076 EAM57338 Xanthine dehydrogenase/Xanthine dehydrogenase
EAQ66823 Chaetomium globosum CBS 148.51 hypothetical protein CHGG_08076
XP_381737 Gibberella zeae PH-1 EAA66516 hypothetical protein FGSG_01561.1/hypothetical protein FGSG01561.1
XP_322608 Neurospora crassa XP_956459 Neurospora crassa N150 CAD37030 Neurospora crassa EAA27223 hypothetical protein/hypothetical protein /probable xanthine dehydrogenase /hypothetical protein
XP_663217 Aspergillus nidulans FGSC A4 Q12553 Emericella nidulans CAA58034 EAA62706 Aspergillus nidulans FGSC A4 xanthine dehydrogenase/XDH_EMENI Xanthine dehydrogenase (Purine hydroxylase I)/xanthine dehydrogenase /XDH_EMENI Xanthine dehydroga
XP_751707 Aspergillus fumigatus Af293 EAL88669 xanthine dehydrogenase/xanthine dehydrogenase
BAE58194 Aspergillus oryzae unnamed protein product
XP_759411 Ustilago maydis 521 EAK84191 hypothetical protein UMI03264.1/hypothetical protein UMI03264.1
XP_682447 Aspergillus nidulans FGSC A4 EAA61469 hypothetical protein AN9178.2/hypothetical protein AN9178.2
CAE73991 Caenorhabditis briggsae Hypothetical protein CBG21624
NP_502747 Caenorhabditis elegans CAB05902 F55B11.1/Hypothetical protein F55B11.1
XP_688983 Danio rerio XP_690809 PREDICTED: similar to xanthine dehydrogenase/PREDICTED: similar to xanthine dehydrogenase
XP_540143 Canis familiaris XP_862631 XP_862539 XP_862593 XP_862595 XP_862564 XP_862613 XP_862658 PREDICTED: similar to Xanthine dehydrogenase/oxidase isoform 1 /PREDICTED: similar to Xanthine dehydrogenase/oxidase isoform 6 /PREDICTED: similar to Xan
XP_558853 Mus musculus Q00519 CAA44705 CAA52997 xanthine dehydrogenase/XDH_MOUSE Xanthine dehydrogenase/oxidase /xanthine dehydrogenase /xanthine dehydrogenase
BAE42582 Mus musculus unnamed protein product
BAE26022 Mus musculus unnamed protein product
XP_576397 Rattus norvegicus NP_058850 1WYG P22985 AAA42349 PREDICTED: hypothetical protein XP_579397/xanthine dehydrogenase / A Chain A, Crystal Structure Of A Rat Xanthine Dehydrogenase Triple Mutant (C535a, C992r And C1324s)/XDH_RAT Xanthine dehydro
NP_000370 Homo sapiens P47989 AAA75287 AAB08399 BAA02013 AAY68219 xanthine dehydrogenase/XDH_HUMAN Xanthine dehydrogenase/oxidase /xanthine dehydrogenase /xanthine dehydrogenase /xanthine dehydrogenase e
XP_525729 Pan troglodytes PREDICTED: hypothetical protein XP_525729
NP_001009217 Felis catus AFF97949 xanthine dehydrogenase/xanthine dehydrogenase
XP_776397 Bos taurus 1V97 1N5X P80457 1VDV 1VDV 1N5X 1FO4 1FIQ 1FO4 1V97 CAA58497 xanthine dehydrogenase/B Chain B, Crystal Structure Of Bovine Milk Xanthine Dehydrogenase Fyx- 051 Bound Form /B Chain B, Xanthine Dehydrogenase From Bovine Milk With I
CAA67117 Bos taurus xanthine dehydrogenase
AAD17937 Syncerus caffer xanthine:oxygen oxidoreductase
AAD17938 Tragelaphus oryx xanthine:oxygen oxidoreductase
NP_990458 Gallus gallus P47990 BAA02502 xanthine dehydrogenase/XDH_CHICK Xanthine dehydrogenase/oxidase /xanthine dehydrogenase
CAF95791 Tetraodon nigroviridis unnamed protein product
XP_699030 Danio rerio PREDICTED: similar to xanthine dehydrogenase
AAK59999 Poecilia reticulata xanthine dehydrogenase
NP_001033781 Gallus gallus ABA43312 aldehyde oxidase 1/aldehyde oxidase 1
NP_788841 Bos taurus P48034 CAA60701 AAI05266 aldehyde oxidase 1/ADO_BOVIN Aldehyde oxidase/aldehyde oxidase /Aldehyde oxidase 1
Q5FB27 Macaca fascicularis BAD89382 ADO_MACFA Aldehyde oxidase/aldehyde oxidase
NP_001150 Homo sapiens BAB40305 aldehyde oxidase 1/aldeyde oxidase
CAH91253 Pongo pygmaeus hypothetical protein
XP_516018 Pan troglodytes PREDICTED: similar to aldeyde oxidase
Q06278 Homo sapiens AAA96650 AAB83966 ADO_HUMAN Aldehyde oxidase/aldehyde oxidase/aldehyde oxidase
P80456 Oryctolagus cuniculus BAA81726 ADO_RABIT Aldehyde oxidase (Retinal oxidase)/retinal oxidase e
NP_062236 Rattus norvegicus Q62D26 AAD15699 AAD17000 aldehyde oxidase 1/ADO_RAT Aldehyde oxidase/liver aldehyde oxidase /liver aldehyde oxidas e
AAD31763 Mus musculus AAH26132 aldehyde oxidase/Aldehyde oxidase 1
BAA36634 Mus musculus retinal oxidase/aldehyde oxidase
NP_033806 Mus musculus O54754 AAC99382 aldehyde oxidase 1/ADO_MOUSE Aldehyde oxidase (Retinal oxidase)/aldehyde oxidase
NP_076120 Mus musculus AAF98385 AAL38126 BAE34503 aldehyde oxidase structural homolog 2/aldehyde oxidase structural homolog 2 /aldehyde oxidase structural homolog 2 /unnamed protein product
NP_001008523 Rattus norvegicus XP_579192 AAV68254 aldehyde oxidase 4/PREDICTED: hypothetical protein XP_579192 /aldehyde oxidase 2
XP_545588 Canis familiaris ABA43314 PREDICTED: similar to aldehyde oxidase structural homolog 2/aldehyde oxidase 2
XP_596585 Bos taurus PREDICTED: similar to aldehyde oxidase structural homolog 2
NP_076106 Mus musculus AAD51029 BAB23483 AAL36596 AAQ24537 AAQ24538 aldehyde oxidase structural homolog 2/aldehyde oxidase homolog-1 /unnamed protein product /AOH1 /aldehyde oxidase 1 /aldehyde oxidase 1
NP_001008527 Rattus norvegicus AAV68253 aldehyde oxidase 3/aldehyde oxidase 1
ABA43315 Canis familiaris aldehyde oxidase 3
XP_851079 Canis familiaris PREDICTED: similar to aldehyde oxidase 3-like 1
XP_610199 Bos taurus PREDICTED: similar to aldehyde oxidase 2
NP_001008522 Rattus norvegicus XP_579191 AAV68255 aldehyde oxidase 2/PREDICTED: aldehyde oxidase 2 /aldehyde oxidase 3
NP_001008419 Mus musculus AAV68256 AAQ38750 aldehyde oxidase 3-like 1/aldehyde oxidase 3 /aldehyde oxidase-like protein 3
NP_001034690 Gallus gallus ABA43313 hypothetical protein LOC424072/aldehyde oxidase 2
AAH74143 Xenopus laevis MGC81880 protein
XP_790508 Strongylocentrotus purpuratus PREDICTED: similar to Xanthine dehydrogenase/oxidase
XP_794846 Strongylocentrotus purpuratus PREDICTED: similar to CG7642-PA
XP_782082 Strongylocentrotus purpuratus PREDICTED: similar to Xanthine dehydrogenase/oxidase
XP_793571 Strongylocentrotus purpuratus PREDICTED: similar to Xanthine dehydrogenase/oxidase
XP_635420 Dictyostelium discoideum AX4 EAL61954 Dictyostelium discoideum xanthine dehydrogenase/xanthine dehydrogenase
AB791760 Oryza sativa (japonica cultivar-group) xanthine dehydrogenase, putative
AT4G34890 = NP_195215 CAB45450 CAB80206 AAO11781 electron transporter/iron ion binding /oxidoreductase/xanthine dehydrogenase /xanthine dehydrogenase-like protein /xanthine dehydrogenase-like protein /xanthine dehydrogenase 1
AT4G34900 = NP_195216 CAB45451 CAB80207 AAR99079 electron transporter/iron ion binding /oxidoreductase/xanthine dehydrogenase /xanthine dehydrogenase /xanthine dehydrogenase /xanthine dehydrogenase 2
Smo_AO3_17_2
Smo_AO3_8_1
Ppa_AO3_11_1
BAA21639 Bombyx mori BAB47183 xanthine dehydrogenase/xanthine dehydrogenase
BAA24290 Bombyx mori xanthine dehydrogenase
AAA21640 Bombyx mori xanthine dehydrogenase
BAA07348 Bombyx mori xanthine dehydrogenase
BAB47182 Bombyx mori truncated xanthine dehydrogenase
XP_317568 Anopheles gambiae str. PEST XP_317567 EAA43934 EAA12866 ENSANGP00000000930/ENSANGP00000025172 /ENSANGP00000025172 /ENSANGP00000000930
AAO14865 Anopheles gambiae xanthine dehydrogenase
P08793 Caliphora vicina AAA27880 CAA30281 XDH_CALVI Xanthine dehydrogenase (XD)/xanthine dehydrogenase (AA at 2538)/xanthine dehydrogenase
AAG47345 Ceratitis capitata xanthine dehydrogenase
AAF03928 Ceratitis capitata xanthine dehydrogenase
AAF29565 Scaptodrosophila lebanonensis xanthine dehydrogenase
AAF03927 Chymomyza amoena xanthine dehydrogenase
AAW31602 Drosophila bifurca xanthine dehydrogenase
AAQ55084 Drosophila bifurca xanthine dehydrogenase
AAF82051 Drosophila mulleri xanthine dehydrogenase
AAF82042 Drosophila uniseta xanthine dehydrogenase
AAF82049 Drosophila richardsoni xanthine dehydrogenase
AAF82047 Drosophila koepferae xanthine dehydrogenase
AAF82048 Drosophila koepferae xanthine dehydrogenase
AAF82046 Drosophila borborema xanthine dehydrogenase
AAF82041 Drosophila starmeri xanthine dehydrogenase
AAF82050 Drosophila stalkeri xanthine dehydrogenase
AAF82043 Drosophila venezolana xanthine dehydrogenase
AAF82044 Drosophila buzzatii xanthine dehydrogenase
AAF82040 Drosophila martensis xanthine dehydrogenase
AAW31604 Drosophila guayllabambae xanthine dehydrogenase
AAW31601 Drosophila novemarstata xanthine dehydrogenase
AAF82052 Drosophila hydei xanthine dehydrogenase
AAW31605 Drosophila nigrohydei xanthine dehydrogenase
AAW31603 Drosophila eohydei xanthine dehydrogenase
AAF03925 Drosophila virilis xanthine dehydrogenase
AAF03924 Hirtodrosophila pictiventris xanthine dehydrogenase
AAF03926 Zaprionus tuberculatus xanthine dehydrogenase
AAK97365 Drosophila mimica xanthine dehydrogenase
AAK97366 Drosophila buzzkii xanthine dehydrogenase
CG2811 Drosophila pseudoobscura AAA29022 EAL27642 AAX13170 Drosophila miranda AAX13172 AAX13174 AAX13175 AAX13176 AAX13177 AAX13178 AAX13179 XDH_DROPS Xanthine dehydrogenase (XD) (Protein rosy locus)/xanthine dehydrogenase (Xdh)/GA20500-PA /rosy /ro
AAX13166 Drosophila miranda AAX13169 rosy/rosy
AAX13171 Drosophila miranda rosy
AAX13173 Drosophila miranda rosy
AAX13180 Drosophila pseudoobscura rosy
AAX13167 Drosophila affinis rosy
P91711 Drosophila subobscura CAA69405 XDH_DROSU Xanthine dehydrogenase (XD) (Protein rosy locus)/xanthine dehydrogenase
AAC64395 Drosophila subobscura xanthine dehydrogenase
AAF29559 Drosophila saltans xanthine dehydrogenase
AAF29560 Drosophila prosaltans xanthine dehydrogenase
AAF29563 Drosophila neocordata xanthine dehydrogenase
AAF29564 Drosophila sturtevanti xanthine dehydrogenase
AAF29562 Drosophila emarginata xanthine dehydrogenase
AAF03921 Drosophila sucinea xanthine dehydrogenase
AAF03922 Drosophila capricorni xanthine dehydrogenase
AAF29561 Drosophila subsaltans xanthine dehydrogenase
AAF03923 Drosophila nebulosa xanthine dehydrogenase
AAF03917 Drosophila equinoxialis xanthine dehydrogenase
AAF03918 Drosophila paulistorum xanthine dehydrogenase
AAF03920 Drosophila insularis xanthine dehydrogenase
AAF03919 Drosophila tropicalis xanthine dehydrogenase
AAF03916 Drosophila willistoni xanthine dehydrogenase
AAF31665 Drosophila bifasciata xanthine dehydrogenase
AAK97364 Drosophila ananassae xanthine dehydrogenase
AAQ17532 Drosophila mimetica xanthine dehydrogenase
AAQ17531 Drosophila eugracilis xanthine dehydrogenase
CG_524337 Drosophila melanogaster F10351 AAF54895 AAM11042 AAQ17526 Drosophila simulans AAQ62072 Transformation vector pICon AAT94522 Drosophila melanogaster rosy CG7642-PA/XDH_DROME Xanthine dehydrogenase (XD) (Protein rosy locus)/CG7642-PA /G
CAA68409 Drosophila melanogaster xanthine dehydrogenase
AAQ17527 Drosophila teissieri xanthine dehydrogenase
AAF31667 Drosophila teissieri xanthine dehydrogenase
AAQ17528 Drosophila yakuba xanthine dehydrogenase
AAQ17529 Drosophila erecta xanthine dehydrogenase
AAF31666 Drosophila erecta xanthine dehydrogenase
AAQ17530