AAQ3T2G27150): partial tree
File name: AO3.pf1
136 aa residues 307 OTU included,
Partial tree including Pps_AO3_6_1 , Smo_AO3_4_1 , 1_1_1_7_1 , BAD31252.1 *Oryza sativa* , 2810_Cre
Assemble Job Id: 4fAghK
Tree job id: ZpE783
BP values out of 100
Analyzed by Maruyama/Fujita
Date: Wed Sep 06 18:43:16 JST 2006

BAE63300 uncultured crenarchaeote 10-H-08 aldehyde oxidase and xanthine dehydrogenase family protein
ZP_00668153 Symbiobacter 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 dehydrogenase
ZP_00557959 Desulfitobacterium hafniense DCB-2 YP_518220 Desulfitobacterium hafniense Y51 EAM98295 Desulfitobacterium hafniense DCB-2 BAE83776 Desulfitobacterium hafniense Y51 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Ferredox
YP_064006 Desulfotalea psychrophila LSv54 CAG34999 aldehyde oxidoreductase/probable aldehyde oxidoreductase
ZP_01137678 Acidothermus cellulolyticus 11B EAR31694 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 (Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Ferredoxin:(2Fe-2S)-binding:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding :Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Ferredox
YP_430083 Moorella thermoacetica ATCC 39073 ABC19540 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead
YP_420646 Magnetospirillum magneticum AMB-1 BAE50287 Aldehyde oxidoreductase/Aldehyde oxidoreductase
YP_166083 Silicibacter pomeroyi DSS-3 AAV94135 xanthine dehydrogenase family protein, small/large subunits s
ZP_00982717 Burkholderia dolosa AUO158 CGG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
ZP_00688869 Burkholderia ambifaria AMMD EAO46139 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Ferredoxin:(2Fe-2S)-binding:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding :Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Ferredoxin:(2Fe-2S)-binding:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding :Aldehyde oxidase and xanthine dehydrogena
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_00802449 Alkaliphilus metalliredigenes QYMF EAO79544 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_01148983 Desulfotomaculum reducens MI-1 EAR45552 similar to 4-Hydroxybenzoyl-CoA reductase (HcrA)/similar to 4-Hydroxybenzoyl-CoA reductase (HcrA)
YP_066802 Desulfotalea psychrophila LSv54 CAG37795 similar to 4-Hydroxybenzoyl-CoA reductase (HcrA)/similar to 4-Hydroxybenzoyl-CoA reductase (HcrA)
ZP_00926351 Escherichia coli 101-1 CQG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
ZP_00729902 Escherichia coli E22 ZP_00715229 Escherichia coli B171 ZP_00700864 Escherichia coli E24377A AP_003441 Escherichia coli W3110 ZP_00718940 Escherichia coli E110019 ZP_00706903 Escherichia coli HS NP_417357 Escherichia coli K12 NP
ZP_01118608 Escherichia coli CQG1529: Aerobic-type carbon monoxide dehydrogenase, putative/aldehyde oxidase/xanthine dehydrogenase/putative xanthine dehydrogenase/CoxL/CutL homologs
ZP_00926350 Escherichia coli 101-1 ZP_00719751 Blastopirellula marina DSM 3645 EAQ76281 4-Hydroxybenzoyl-CoA reductase alpha-subunit/4-Hydroxybenzoyl-CoA reductase alpha-subunit
ZP_00960509 Roseovarius nubinhibens ISM EAP76080 xanthine dehydrogenase family protein, large subunit/xanthine dehydrogenase family protein, large subunit
NP_103666 Mesorhizobium loti MAFF303099 BAB48452 4-Hydroxybenzoyl-CoA reductase alpha-subunit/4-Hydroxybenzoyl-CoA reductase alpha-subunit
YP_488105 Rhodopseudomonas palustris HaA2 ABD09154 Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding/Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Xanthine dehydrogenase
ZP_00844122 Rhodopseudomonas palustris BisB18 ABD90162 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Xanthine dehydrogenase
ZP_02587070 Agrobacterium tumefaciens str. CS8 NP_396434 AAK90975 AAL46186 dehydrogenase/hypothetical protein AGR_pAT_739 /AGR_pAT_739p /dehydrogenase
ZP_00917572 Rhodobacter sphaeroides ATCC 17029 EAP68752 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00106411 Nostoc punctiforme PCC 73102 CGG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
ZP_00111150 Nostoc punctiforme PCC 73102 CGG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
ZP_01030537 root CGG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
YP_816211 Enterococcus faecalis V583 AAO82281 aldehyde oxidoreductase, putative/aldehyde oxidoreductase
YP_430838 Moorella thermoacetica ATCC 39073 ABC20235 Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding/Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyd
NP_823243 Streptomyces avermitilis MA-4680 BAC69778 xanthine dehydrogenase/putative xanthine dehydrogenase
NP_630276 Streptomyces coelicolor A3(2) CAA22506 oxidoreductase/putative oxidoreductase
ZP_00963365 Escherichia coli 101-1 ZP_00719544 Escherichia coli B171 ZP_00717298 Escherichia coli B7A ZP_00700850 Escherichia coli E24377A NP_417342 Escherichia coli K12 ZP_00737534 Escherichia coli 53638 Z
ZP_00718926 Escherichia coli E110019 CQG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
ZP_00723184 Escherichia coli F11 CQG1529: Aerobic-type carbon monoxide dehydrogenase, large subunit CoxL/CutL homologs
YP_755319 Escherichia coli CFT073 AAN81889 Xanthine dehydrogenase, molybdenum binding subunit/Xanthine dehydrogenase, molybdenum binding subunit
YP_00450 Shigella boydii Sb227 ABB61622 hypothetical protein SBO_3119/conserved hypothetical protein
NP_289436 Escherichia coli O157:H7 EDL933 NP_311766 Escherichia coli O157:H7 QBX6C7 AAG57995 Escherichia coli O157:H7 EDL933 BAB37162 Escherichia coli O157:H7 hypothetical protein ECs3739 /XDHA_ECO57 Xanthine dehydrog
ZP_00600156 Rubrobacter xylanophilus DSM 9941 EAN39855 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_00526571 Sulfolobus islandicus filamentous virus SIFV EAN03360 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
YP_377762 Sulfolobus tokodaii str. 7 BAB66871 hypothetical carbon-monoxide dehydrogenase large subunit/744aa long hypothetical carbon-monoxide dehydrogenase large subunit
YP_949074 Sulfolobus solfataricus P2 AAK42760 carbon-monoxide dehydrogenase, large chain (coA-4)/Carbon monoxide dehydrogenase, large chain (coA-4)
YP_256850 Sulfolobus acidocaldarius DSM 639 AAY81557 carbon monoxide dehydrogenase large chain/carbon monoxide dehydrogenase large chain
YP_558646 Pyrobaculum aerophilum str. IM2 AAL63828 carbon monoxide dehydrogenase large subunit, conjectural/carbon monoxide dehydrogenase large subunit, conjectural
YP_147434 Aeropyrum pernix K1 BAA79984 aldehyde oxidoreductase/753aa long hypothetical aldehyde oxidoreductase
ZP_01192927 Mycobacterium flavescens PYR-GCK EAS10835 Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding /Aldehyde oxidase and xanthine dehydrogenase, a/b hammerhead:Aldehyde
ZP_01207557 Mycobacterium vanbaalenii PYR-1 EAS23116 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
ZP_00958249 Frankia sp. EAN1e849 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
ZP_00658455 Nocardioides sp. JS614 EAO06753 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
ZP_00658795 Nocardioides sp. JS614 EAO06395 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
ZP_01012701 Rhodobacterales bacterium HTCC2654 EAQ13606 probable oxidoreductase protein/probable oxidoreductase protein
ZP_00661452 Mesorhizobium sp. BNC1 EAN04564 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
NP_107964 Mesorhizobium loti MAFF303099 BAB54109 putative dehydrogenase/putative dehydrogenase
NP_387097 Sinorhizobium meliloti 1021 CAC47570 Sinorhizobium meliloti PUTATIVE CARBON MONOXIDE DEHYDROGENASE LARGE SUBUNIT TRANSMEMBRANE PROTEIN/PUTATIVE CARBON MONOXIDE DEHYDROGENASE LARGE SUBUNIT TRANSMEMBRANE PROTEIN
ZP_01034708 Roseobacter sp. GAI101 EAQ77389 carbon monoxide dehydrogenase, large subunit/carbon monoxide dehydrogenase, large subunit
ZP_00508081 Polaromonas sp. JS666 EAM37899 Carbon-monoxide dehydrogenase/Carbon-monoxide dehydrogenase
Ppa_AO3_10_2
ZP_01150024 Desulfotomaculum reducens MI-1 EAR42550 xanthine dehydrogenase/xanthine dehydrogenase
ZP_00657673 Nocardioides sp. JS614 EAO07559 Xanthine dehydrogenase/Xanthine dehydrogenase
XP_650477 Dictyostelium discoideum AAF52029 AAM11074 CG6045-PA/CG6045-PA /GH20165p
AAO41437 Drosophila melanogaster RS15958p
EAL29223 Drosophila pseudoobscura GA14970-PA
EAL29227 Drosophila pseudoobscura GA19318-PA
NP_650478 Drosophila melanogaster AAF55210 CG18516-PA/CG18516-PA
NP_730047 Drosophila melanogaster NP_650476 AAF55208 AAN13670 CG18519-PB, isoform B/CG18519-PA, isoform A /CG18519-PA, isoform A /CG18519-PB, isoform B
EAL29226 Drosophila pseudoobscura GA14971-PA
NP_650475 Drosophila melanogaster AAF55207 AAM52690 CG18522-PA/CG18522-PA /LD37006p
XP_316291 Anopheles gambiae str. PEST EAA11584 ENSANGP00000020618/ENSANGP00000020618
XP_316290 Anopheles gambiae str. PEST EAA11733 ENSANGP00000020593/ENSANGP00000020593
AAF87601 Culex pipiens quinquefasciatus aldehyde oxidase
XP_315656 Anopheles gambiae str. PEST EAA11737 ENSANGP00000021704/ENSANGP00000021704
Ppa_AO3_12_1
Ppa_AO3_6_1
Smo_AO3_15_1
Smo_AO3_2_1
Smo_AO3_10_1
Smo_AO3_7_1
AO3_4_1 Smo_AO3_1_1
BAA23227 Zea mays aldehyde oxidase-2
BAA23226 Zea mays aldehyde oxidase
AT_47481 Oryza sativa (japonica cultivar-group) BAC84232 putative aldehyde oxidase/putative aldehyde oxidase
BAD31252 Oryza sativa (japonica cultivar-group) putative aldehyde oxidase
XP_469930 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) AAL70110 Oryza sativa AAP52052 Oryza sativa (japonica cultivar-group) putative aldehyde oxidase/Putative aldehyde oxidase /Aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding domain,
XP_476717 Oryza sativa (japonica cultivar-group) BAC79746 putative aldehyde oxidase/putative aldehyde oxidase
ATSG27090 NP_181098 NP_850407 Q7G193 BAA23824 AAO1 (ALDEHYDE OXIDASE 1)/AAO1 (ALDEHYDE OXIDASE 1) /ALDO1_AR ATH Aldehyde oxidase 1 (AtAO-1) (AtAO1)/aldehyde oxidase &
AAC39509 Arabidopsis thaliana putative aldehyde oxidase
AT3G43600 = NP_189946 Q7G192 BAA28625 CAC05634 AAO2 (ALDEHYDE OXIDASE 2)/ALDO2_AR ATH Aldehyde oxidase 2 (AtAO-2) (AtAO3)/aldehyde oxidase /aldehyde oxidase &
AAG22007 Lycopersicon esculentum AAK52410 aldehyde oxidase/aldehyde oxidase TAO3
AAB41742 Lycopersicon esculentum AAG22605 aldehyde oxidase 1 homolog/aldehyde oxidase
AAG32906 Lycopersicon esculentum AAK52409 aldehyde oxidase/aldehyde oxidase TAO2
AT1QG04580 = NP_563711 Q7G191 AAB80640 BAA90299 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 Q7G0P4 BAA28630 AAD22498 BAA82672 AAO3 (ALDEHYDE OXIDASE 3)/ALDO3_AR ATH Abscisic-aldehyde oxidase (Aldehyde oxidase 3) (AtAO-3) (AtAO4)/aldehyde oxidase /aldehyde oxidase /aldehyde oxidase &
ZP_00490145 Burkholderia pseudomallei 668 ZP_00936706 Burkholderia mallei JHU ZP_00442634 Burkholderia mallei 668 horse 4 ZP_01010517 Burkholderia pseudomallei 1710b ZP_01066522 root YP_109323 Burkholderi
YP_441955 Burkholderia thailandensis E264 ABC37345 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
ZP_00865560 Burkholderia dolosa AUO158 CGG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
ZP_00426753 Burkholderia vietnamiensis G4 EAM06692 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00687637 Burkholderia ambifaria AMMD EAO46430 Xanthine dehydrogenase/Xanthine dehydrogenase
YP_368168 Burkholderia sp. 383 ABB07524 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00454960 Burkholderia cenocepacia AU 1054 ZP_00459823 Burkholderia cenocepacia HI2424 ZP_00981761 Burkholderia cenocepacia PC184 EAM12527 Burkholderia cenocepacia AU 1054 EAM20974 Burkholderia cenocepacia HI2424 Xanthine dehydrogenase/Xant
ZP_00282855 Burkholderia vietnamiensis LB400 CGG4631: 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
AAL92572 Delftia acidovorans xanthine dehydrogenase large subunit
ZP_00243448 Rubrivivax gelatinosus PM1 CGG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
ZP_01146094 Acidiphilium cryptum JF-5 EAR93689 xdhB, RSc2096: probable xanthine dehydrogenase (subunit B) oxidoreductase protein/xdhB, RSc2096: probable xanthine dehydrogenase (subunit B) oxidoreductase protein
ZP_00281089 Burkholderia xenovorans LB400 CGG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
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_01198623 Xanthobacter autotrophicus Py2 EAS15494 putative xanthine dehydrogenase protein/putative xanthine dehydrogenase protein
ZP_00611894 Mesorhizobium sp. BNC1 EAN06860 Xanthine dehydrogenase/Xanthine dehydrogenase
NP_697382 Brucella suis 1330 NP_540492 Brucella melitensis 16M YP_221135 Brucella abortus bovar 1 str. 9-941 AAL52756 Brucella melitensis 16M AAN29297 Brucella suis 1330 AAX73774 Brucella abortus bovar 1 str. 9-941 xanthine dehydrogenase,
NP_105850 Mesorhizobium loti MAFF303099 BAB51636 xanthine dehydrogenase, xdhB/xanthine dehydrogenase, XdhB
NP_437331 Sinorhizobium meliloti 1021 CAC49191 putative xanthine dehydrogenase protein/putative xanthine dehydrogenase protein
ZP_00632735 Caulobacter sp. K31 ABZ74855 PD1222 EAM63696 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00601289 Silicibacter sp. TM1040 EAN56834 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_01003604 Roseovarius sp. 217 EAO24416 putative xanthine dehydrogenase protein/putative xanthine dehydrogenase protein
NP_437678 Sinorhizobium meliloti 1021 CAC49538 probable xanthine dehydrogenase protein/probable xanthine dehydrogenase protein
NP_353268 Agrobacterium tumefaciens str. C58 AAK88053 hypothetical protein AGR_C_4204/AGR_C_4204p
YP_470618 Rhizobium sp. NGR234 ABQ19181 xanthine dehydrogenase protein/xanthine dehydrogenase protein
YP_191086 Gluconobacter oxydans 621H AAW60430 Xanthine dehydrogenase XdhB protein/Xanthine dehydrogenase XdhB protein
ZP_00963449 Sulfitobacter sp. NAS-14.1 EAP80193 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
ZP_00956195 Sulfitobacter sp. EE-36 EAP83296 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
ZP_00998401 Oceanicola batsensis HTCC2597 EAO34337 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
YP_508878 Jannaschia sp. CCS1 ABD53853 aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding/aldehyde oxidase and xanthine dehydrogenase, molybdopterin binding
ZP_01157409 Oceanicola granulosus HTCC2516 EAR50443 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
ZP_01001691 Loktanella vestfoldensis SKA53 EAN57831 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
ZP_00620080 Silicibacter sp. TM1040 EAN57218 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_01004862 Roseobacter sp. MED193 EAO47353 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
YP_165908 Silicibacter pomeroyi DSS-3 AAV93961 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
ZP_01011881 Rhodobacterales bacterium HTCC2654 EAQ14623 xanthine dehydrogenase, B subunit/xanthine dehydrogenase, B subunit
1JRP Rhodobacter capsulatus 1JRP 1JRP 1JRP 1JRO 1JRO 1JRO 1JRO CAA04470 H Chain H, Crystal Structure Of Xanthine Dehydrogenase Inhibited By Alloxanthine From Rhodobacter Capsulatus/F Chain F, Crystal Structure Of Xanthine Dehydrogenase Inhibited By Al
YP_047059 Acinetobacter sp. ADP1 CAG69237 xanthine dehydrogenase, large subunit/xanthine dehydrogenase, large subunit
ZP_00418956 Acinetobacter sp. ADP1 EAQ48418 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00976444 Pseudomonas aeruginosa 2192 COG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
ZP_00347959 Pseudomonas aeruginosa UCBPP-PA14 NP_250314 Pseudomonas aeruginosa PAO1 AAG06004 Pseudomonas aeruginosa C3719 AAG04912 Pseudomonas aeruginosa PAO1 COG4631: Xanthine dehydrogenase, molybdopterin-binding subunit B/xanthine dehydrog
YP_347528 Pseudomonas fluorescens PfO-1 ABA73539 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_02902137 Pseudomonas fluorescens Pf-5 AAY91175 xanthine dehydrogenase, XdhB subunit/xanthine dehydrogenase, XdhB subunit
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
NP_793435 Pseudomonas syringae pv. tomato str. DC3000 AAO57130 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
ZP_274008 Pseudomonas syringae pv. phaseolicola 1448A AAZ33493 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
YP_234899 Pseudomonas syringae pv. syringae B728a ABY38361 Xanthine dehydrogenase/Xanthine dehydrogenase
YP_130432 Photobacterium profundum SS9 CAG20630 putative xanthine dehydrogenase, XdhB subunit/putative xanthine dehydrogenase, XdhB subunit
ZP_00989675 Vibrio splendidus 12B01 EAP59236 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
YP_432403 Hahella chejuensis KCTC 2396 ABC27978 Xanthine dehydrogenase, molybdopterin-binding subunit B/Xanthine dehydrogenase, molybdopterin-binding subunit B
ZP_00776516 Pseudoalteromonas atlantica T6c EAO66879 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_01108904 Alteromonas macleodii 'Deep ecotype' EAR06620 xanthine dehydrogenase, molybdopterin binding subunit/xanthine dehydrogenase, molybdopterin binding subunit
ZP_01101048 gamma proteobacterium NOR51-B EAY31940 Xanthine dehydrogenase, molybdenum binding subunit/Xanthine dehydrogenase, molybdenum binding subunit
ZP_00472650 Chromohalobacter salexigens DSM 3043 EAM24111 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00654906 Psychrobacter cryohalolentis K5 EAO10324 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_01022159 Polaromonas naphthalenivorans CJ2 EAQ19202 putative xanthine dehydrogenase large subunit/putative xanthine dehydrogenase large subunit
ZP_00508421 Polaromonas sp. JS666 EAM37422 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00657510 Nocardioides sp. JS614 EAO07700 Xanthine dehydrogenase/Xanthine dehydrogenase
ZP_00397930 Deinococcus geothermalis DSM 11300 EAL81453 Xanthine dehydrogenase/Xanthine dehydrogenase
NP_295502 Deinococcus radiodurans R1 AAF12194 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
YP_629124 Streptomyces coelicolor A3(2) CAD30957 dehydrogenase/putative dehydrogenase
ZP_00997026 Janibacter sp. HTCC2649 EAP97612 putative dehydrogenase/putative dehydrogenase
ZP_00378273 Brevibacterium linens BL2 CCQ4631: Xanthine dehydrogenase, molybdopterin-binding subunit B
ZP_01114034 Reinekea sp. MED297 EAR10079 xanthine dehydrogenase, molybdopterin binding subunit/xanthine dehydrogenase, molybdopterin binding subunit
ZP_00994334 Bdellovibrio bacteriovorus HD100 CAE80427 xanthine dehydrogenase, C-terminal subunit/xanthine dehydrogenase, C-terminal subunit
AAT81746 Oryza sativa (japonica cultivar-group) xanthine dehydrogenase, putative
AT4G34890 = NP_195216 CAB54561 CAB80660 AAO1(ATH1) 661 electron transporter/ion ion binding /oxidoreductase/xanthine dehydrogenase /xanthine dehydrogenase-like protein /xanthine dehydrogenase-like protein /xanthine dehydrogenase 1
AT4G34900 = NP_195216 CAB54551 CAB80207 AAR99079 electron transporter/ion ion binding /oxidoreductase/xanthine dehydrogenase /xanthine dehydrogenase /xanthine dehydrogenase 2
Smo_AO3_17_2
Ppa_AO3_11_1
2810_Cre
CAE73991 Caenorhabditis briggsae Hypothetical protein CBG21624
XP_750411 Ustilago maydis 521 EAN84191 hypothetical protein UM02264.1/hypothetical protein UM02264.1
CAE72123 Caenorhabditis briggsae Hypothetical protein CBG19219
EAS36823 Chaetomium globosum CBS 148.51 hypothetical protein CHGG_08076
XP_322606 Neurospora crassa XP_956459 Neurospora crassa NT50 CAD37030 Neurospora crassa EAA27223 hypothetical protein/hypothetical protein /probable xanthine dehydrogenase /hypothetical protein
XP_381737 Gibberella zeae PH-1 EAA68516 hypothetical protein FG01561.1/hypothetical protein FG01561.1
XP_663217 Aspergillus nidulans FGSC A4 CAD51253 Emericella nidulans CAA58004 EAA62740 Aspergillus nidulans FGSC A4 xanthine dehydrogenase (Purine hydroxylase I)/xanthine dehydrogenase /XDH_EMENI Xanthine dehydrogenase /XDH_EMENI
BAE58194 Aspergillus oryzae unnamed protein product
YP_751707 Aspergillus fumigatus AE093 EAL89669 xanthine dehydrogenase/xanthine dehydrogenase
XP_682447 Aspergillus nidulans FGSC A4 EAA61469 hypothetical protein AN9178.2/hypothetical protein AN9178.2
XP_688963 Danio rerio XP_690809 PREDICTED: similar to xanthine dehydrogenase/PREDICTED: similar to xanthine dehydrogenase
XP_990458 Gallus gallus P47999 AAO62302 xanthine dehydrogenase/XDH_CHICK Xanthine dehydrogenase /xanthine dehydrogenase
XP_540143 Canis familiaris XP_862631 XP_862539 XP_862593 XP_862565 XP_862684 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_001253 Mus musculus Q00519 CAA43944 CAA52997 BAE36022 xanthine dehydrogenase/XDH_MOUSE Xanthine dehydrogenase /xanthine dehydrogenase /xanthine dehydrogenase (unnamed protein product
XP_579397 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
XP_000370 Homo sapiens P47989 AAA72487 AAH03809 BAA21013 AAY68219 xanthine dehydrogenase/XDH_HUMAN Xanthine dehydrogenase /xanthine dehydrogenase /xanthine dehydrogenase/xanthine dehydrogenase e
XP_525729 Pan troglodytes PREDICTED: hypothetical protein XP_525729
XP_776397 Bos taurus 1V97 1N5X P80457 1VDV 1VDW 1N5X 1FO4 1FIQ 1FO1 1V97 CAA58497 CAA67117 xanthine dehydrogenase/B Chain B, Crystal Structure Of Bovine Milk Xanthine Dehydrogenase Fyx- 051 Bound Form /B Chain B, Xanthine Dehydrogenase From Bovine Mi
AAD17937 Syncerus caffer AAD17938 Tragelaphus oryx xanthine oxygen oxidoreductase/xanthine oxygen oxidoreductase
XP_001009217 Felis catus AAF97949 xanthine dehydrogenase/xanthine dehydrogenase
XP_699030 Danio rerio PREDICTED: similar to xanthine dehydrogenase
AAK09699 Poecilia reticulata xanthine dehydrogenase
CAQ13297 Tetraodon nigroviridis unnamed protein product
NP_001033781 Gallus gallus ABA43312 aldehyde oxidase 1/aldehyde oxidase 1
NP_001034680 Gallus gallus ABA43313 hypothetical protein LOC424072/aldehyde oxidase 2
NP_076106 Mus musculus AAD01028 BAB23485 AAL36586 AAQ24537 aldehyde oxidase structural homolog 2/aldehyde oxidase homolog-1 /unnamed protein product /AOH1 /aldehyde oxidase 1
AAQ24538 Mus musculus aldehyde oxidase 1
NP_001008527 Rattus norvegicus AAH68253 aldehyde oxidase 3/aldehyde oxidase 1
AAH74143 Xenopus laevis MGC81880 protein
ABA43315 Canis familiaris aldehyde oxidase 3
NP_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 AF_579191 AAV68255 aldehyde oxidase 2/PREDICTED: aldehyde oxidase 2 /aldehyde oxidase 3
NP_001008419 Mus musculus AAV68256 AAO38750 aldehyde oxidase 3-like 1/aldehyde oxidase 3 /aldehyde oxidase-like protein 3
NP_788841 Bos taurus P49034 CAA60701 aldehyde oxidase 1/AOC_BOVIN Aldehyde oxidase /aldehyde oxidase
AAI05266 Bos taurus Aldehyde oxidase 1
NP_062236 Rattus norvegicus Q92515 AAD16999 AAD17000 aldehyde oxidase 1/AOD_RAT Aldehyde oxidase/liver aldehyde oxidase /liver aldehyde oxidase e
NP_033806 Mus musculus CS4754 AAC99382 BAA36834 AAH26132 aldehyde oxidase 1/AOD_MOUSE Aldehyde oxidase (Retinal oxidase)/aldehyde oxidase /retinal oxidase/aldehyde oxidase /Aldehyde oxidase 1
AAD31763 Mus musculus aldehyde oxidase
CAF82307 Macaca fascicularis BAD36353 AOD_MACFA Aldehyde oxidase/aldehyde oxidase e
NP_001150 Homo sapiens XP_516018 Pan troglodytes Q06278 Homo sapiens AAA96650 BAB40305 CAH91253 Pongo pygmaeus AAY24265 Homo sapiens aldehyde oxidase 1/PREDICTED: similar to aldehyde oxidase /AOD_HUMAN Aldehyde oxidase /aldehyde oxidase/aldeyd
AAB83866 Homo sapiens aldehyde oxidase
P80456 Oryctolagus cuniculus BAA81726 AOD_RABIT Aldehyde oxidase (Retinal oxidase)/retinal oxidase e
Mouse NP_076100 Mus musculus AAF98385 AAL36126 BAE34503 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_596585 Bos taurus PREDICTED: similar to aldehyde oxidase structural homolog 2
XP_545568 Canis familiaris ABA43314 PREDICTED: similar to aldehyde oxidase structural homolog 2/aldehyde oxidase 2
XP_782082 Strongylocentrotus purpuratus PREDICTED: similar to Xanthine dehydrogenase/oxidase
XP_793571 Strongylocentrotus purpuratus PREDICTED: similar to Xanthine dehydrogenase/oxidase
XP_790508 Strongylocentrotus purpuratus PREDICTED: similar to Xanthine dehydrogenase/oxidase
BAA21639 Bombyx mori BAA24290 BAB47183 xanthine dehydrogenase/xanthine dehydrogenase /xanthine dehydrogenase
BAA21640 Bombyx mori BAB47182 xanthine dehydrogenase/truncated xanthine dehydrogenase
BAA07348 Bombyx mori xanthine dehydrogenase
XP_317568 Anopheles gambiae str. PEST XP_317567 EAA43934 EAA12866 ENSANGP00000009930/ENSANGP00000025172 /ENSANGP00000009930
AAO14805 Anopheles gambiae xanthine dehydrogenase
AAG47345 Ceratitis capitata xanthine dehydrogenase
BAC14430 Ceratitis capitata AAF03928 xanthine dehydrogenase/xanthine dehydrogenase
P08793 Calliphora vicina AAA27880 CAA30281 XDH_CALVI Xanthine dehydrogenase (XD)/xanthine dehydrogenase (AA at 2538)/xanthine dehydrogenase
AAF03924 Hirudotrelpha pictoventris xanthine dehydrogenase
AAW31602 Drosophila bifurca xanthine dehydrogenase
AAZ65084 Drosophila bifurca xanthine dehydrogenase
AAW31604 Drosophila guayllabambae xanthine dehydrogenase
AAW31601 Drosophila novamexicana xanthine dehydrogenase
AAF82052 Drosophila hydei AAW31605 Drosophila nigrohydei xanthine dehydrogenase/xanthine dehydrogenase
AAW31603 Drosophila eohydei xanthine dehyd